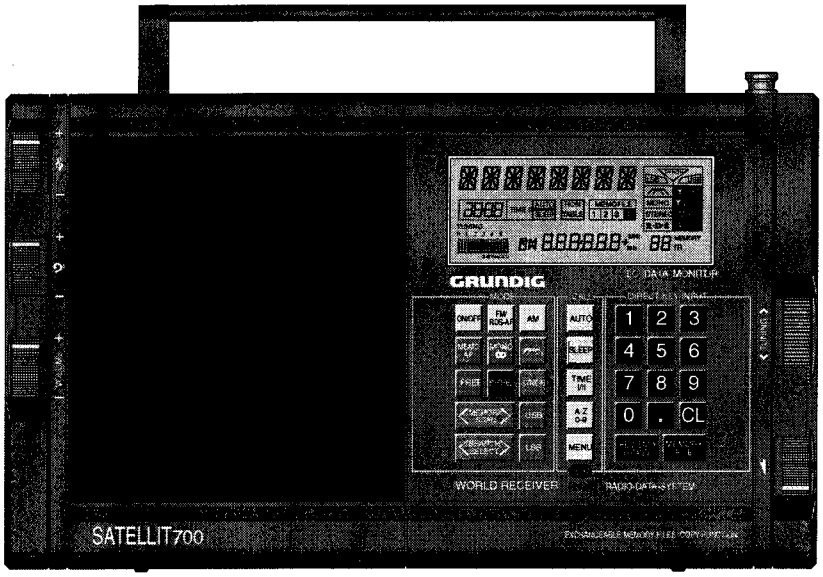
GRUNDIG SERVICE MANUAL

Service Manual

Ⓓ Btx * 32700 #

Satellit 700

Satellit 700 (9.15055-8151) / Satellit 700 USA (9.15055-7151) / Satellit 700 GB (9.15055-6251) / Satellit 700 Italia (9.15055-6151)



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Inhaltsverzeichnis

	Seite
Technische Daten	2
Allgemeine Hinweise:	
Sicherheitshinweise	3-5
Sicherheitshinweise zu Lithiumbatterien	5
Chip-Technik	6-7
Behandlung von MOS-Bauteilen	7-8
Ausbauhinweise	9-10
Hinweise zum Satellit 700:	
Spannungsversorgung	11
Autom. Steuerung eines Cassettengerätes	12
Befestigen des Gerätes	12
Memofiles	12
Lautsprecher-Buchse	12
Synchrondetektor	13
RDS-Testmode	13
Testmode	14
Abgleich	15-18
Schaltbilder:	
HF-Platte	23-26
Prozessorplatte	27-30
Bedienplatte	35-37
NF- und Potiplatte	38-40
Druckplattenabbildungen:	
HF-Platte	19-22
Prozessorplatte	31-32
Bedienplatte	33-34
NF- und Potiplatte	41-42
Schaltbildhinweise	43
Ersatzteilliste	44-52

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Contents

	Page
Specification	2
General Notes:	
Safety Requirements	3-5
Safety Cautions for Lithium Batteries	5
Chip Technology	6-7
Handling of MOS Chip Components	7-8
Disassembly Instructions	9-10
Notes for the Satellit 700:	
Power Supply	11
Autom. Control of a Cassette Recorder	12
Securing the Unit	12
Memofiles	12
Loudspeaker Socket	12
Synchronous Demodulator	13
RDS-Testmode	13
Testmode	14
Alignment	15-18
Circuit Diagrams:	
RF Board	23-26
Processor Board	27-30
Operating Board	35-37
AF- and Potentiometer Board	38-40
Illustration of Printed Boards:	
RF Board	19-22
Processor Board	31-32
Operating Board	33-34
AF- and Potentiometer Board	41-42
Notes for the Circuit Diagram	43
List of Spare Parts	44-52

Änderungen vorbehalten
Subject to alteration

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Technische Daten

Spannungsversorgung
- Durch Batterien:
  4 x 1,5 V-Monozellen (IEC LR20) oder 4 x handelübliche 4 Ah-Akkus in gleicher Größe (IEC KR 35/62).
  Eingebaute, sich automatisch wiederaufladende Lithiumbatterie für Datensicherung.
- Externe Versorgung: Netzteil NR 90 oder Gleichspannung 9-12 V=

Ausgangsleistung (Mono und Stereo) an 7,5Ω
- Netz-/Musikleistung nach DIN 45324: 1 bzw. 2 x 1,5W
- Spitzenleisung: 1 bzw. 2 x 3W
- Sinusleistung bei Batteriebetrieb nach DIN 45324: 1 bzw. 2 x 0,5W

Batterie-Betriebsstunden (gemessen nach DIN 45314)
Typ IEC LR 20 (Alkali-Mangan)
z.B. VARTA energy 2000 ALKALINE: ca. 90 Std.
z.B. Duracell MN 1300: ca. 110 Std.
4 Ah-Accus (IEC KR 35/62): ca. 25 Std.

Eingebaute Antennen
- Teleskopantenne für UKW und Kurzwelle, Ferritstab-Antenne für MW und LW

Anschlußbuchsen
- zum Ansteuern von Verstärkeranlagen und für Mono- und Stereo-Überspielungen (Aufnahmen); LINE OUT (Cinch-Buchsen)
- für Kopfhörer mit 3,5-mm-Klinkenstecker; 32-2000Ω
- für Außenlautsprecher (linker und rechter Kanal) mit 3,5-mm-Klinkenstecker; 8Ω
- zum Steuern externer Geräte, z.B. Bandgeräte (Schaltausgangs-Buchse) potentialfreie Relaisansteuerung
- für externe Spannungsversorgung; Netzteil NR 90 oder Gleichspannung 9-12V (5,5mm-Koaxial-Buchse)
- für Außenantenne DIN 45325 (FM 75Ω/AM 50Ω-Koaxial-Buchse für alle Bereiche)

Empfangsbereiche
FM: 87,5 - 108 MHz
SW: 1612 - 30000 kHz
3950 - 26100 kHz (Satellit Italia)
MW: 528 - 1611 kHz
LW: 150 - 353 kHz
150 - 302 kHz (Satellit Italia)

Empfangbare KW-Bänder

Band	Frequenz (kHz)
160-m-Amateur	1815 - 1890 (nicht bei Satellit Italia)
120-m-Rundfunk	2300 - 2498 (nicht bei Satellit Italia)
90-m-Tropen	3200 - 3400 (nicht bei Satellit Italia)
80-m-Amateur	3500 - 3800 (nicht bei Satellit Italia)
75-m-Rundfunk	3900 - 4000
60-m-Tropen	4750 - 5060
49-m-Rundfunk	5950 - 6200
41-m-Rundfunk	7100 - 7300
40-m-Amateur	7000 - 7099
31-m-Rundfunk	9500 - 9900
30-m-Amateur	10100 - 10150
25-m-Rundfunk	11650 - 12050
22-m-Rundfunk	13600 - 13800
20-m-Amateur	14000 - 14350
19-m-Rundfunk	15100 - 15600
17-m-Amateur	18065 - 18170
16-m-Rundfunk	17550 - 17900
15-m-Amateur	21000 - 21449
13-m-Rundfunk	21450 - 21850
12-m-Amateur	24890 - 24990
11-m-Rundfunk	25650 - 26100
10-m-Amateur	28000 - 29700 (nicht bei Satellit Italia)

ZF:
FM = 10,7 MHz
AM: ZF 1 = 54,5 MHz, ZF 2 = 450 kHz

Specification

Power supply requirement
- From batteries:
  4 x 1.5 V"HP 2" (IEC LR20) or 4 commercially available 4 Ah accumulators of the same size (IEC KR 35/62).
  Built-in automatically recharging lithium battery for data protection.
- From external voltage supply: Mains unit NR 90 or 9-12 V DC.

Output power (Mono and Stereo) in 7.5Ω
- Mains/music power according to DIN 45324: 1 and 2 x 1,5W, resp.
- Peak power: 1 and 2 x 3W, resp.
- Sinus power on battery operation acc.to DIN 45324: 1 and 2 x 0,5W, resp.

Batterie working hours (measured according to DIN 45314)
Typ IEC LR 20 (Alkali-Mangan)
e.g. VARTA energy 2000 ALKALINE: ca. 90 hours.
e.g. Duracell MN 1300: ca. 110 hours.
4 Ah-Accus (IEC KR 35/62): ca. 25 hours.

Built-in aerials
- Telescopic aerial for FM and SW, ferrite rod aerial for MW and LW.

Connecting sockets for
- driving amplifier systems and for mono and stereo tape recordings; LINE OUT (phono sockets)
- headphone with 3.5mm jack plug; 32-2000Ω
- external loudspeaker (left-hand and right-hand channel) with 3.5mm jack plug; 8Ω
- driving external units, e.g., tape recorders (output switch jack); potential-free relay control
- external power supply; mains unit NR 90 or 9-12V DC (5.5mm coaxial socket)
- external aerial DIN 45325 (FM 75Ω/AM 50Ω coaxial socket for all wavebands).

Wavebands
FM: 87.5 - 108 MHz
SW: 1612 - 30000 kHz
3950 - 26100 kHz (Satellit Italia)
MW: 528 - 1611 kHz
LW: 150 - 353 kHz
150 - 302 kHz (Satellit Italia)

Receivable SW Bands

Band	Frequency (kHz)
160-m-amateur	1815 - 1890 (not on Satellit Italia)
120-m-radio	2300 - 2498 (not on Satellit Italia)
90-m-tropic	3200 - 3400 (not on Satellit Italia)
80-m-amateur	3500 - 3800 (not on Satellit Italia)
75-m-radio	3900 - 4000
60-m-tropic	4750 - 5060
49-m-radio	5950 - 6200
41-m-radio	7100 - 7300
40-m-amateur	7000 - 7099
31-m-radio	9500 - 9900
30-m-amateur	10100 - 10150
25-m-radio	11650 - 12050
22-m-radio	13600 - 13800
20-m-amateur	14000 - 14350
19-m-radio	15100 - 15600
17-m-amateur	18065 - 18170
16-m-radio	17550 - 17900
15-m-amateur	21000 - 21449
13-m-radio	21450 - 21850
12-m-amateur	24890 - 24990
11-m-radio	25650 - 26100
10-m-amateur	28000 - 29700 (not on Satellit Italia)

IF:
FM = 10,7 MHz
AM: IF 1 = 54,5 MHz, IF 2 = 450 kHz

Allgemeine Hinweise

General Notes

Sicherheitsvorschriften/Safety requirements/Prescrizioni de sicurezza/Prescriptions de sécurité/ Prescripciones de seguridad

(D) **Achtung:** Bei Eingriffen ins Gerät sind die Sicherheitsvorschriften nach VDE 701 (reparaturbezogen) bzw. VDE 0860 / IEC 65 (gerätebezogen) zu beachten!

Bauteile nach IEC- bzw. VDE-Richtlinien ! Im Ersatzfall nur Teile mit gleicher Spezifikation verwenden!

MOS - Vorschriften beim Umgang mit MOS - Bauteilen beachten!

(GB) **Attention:** Please observe the applicable safety requirements according to VDE 701 (concerning repairs) and VDE 0860 / IEC 65 (concerning type of product)!

Components to IEC or VDE guidelines! Only use components with the same specifications for replacement!

Observe **MOS** components handling instructions when servicing!

(I) **Attenzione:** Osservarne le corrispondenti prescrizioni di sicurezza VDE 701 (concernente servizio) e VDE 0860 / IEC 65 (concernente il tipo di prodotto)!

Componenti secondo le norme VDE risp. te IEC! In caso di sostituzione impiegare solo componenti con le stesse caratteristiche.

Osservare le relative prescrizioni durante, lavori con componenti **MOS**!

(F) **Attention:** Priere d'observer les prescriptions de securite VDE 701 (concernant les reparations) et VDE 0860 / IEC 65 (concernant le type de produit)!

Composants répondant aux normes VDE ou IEC. Les remplacer uniquement par des composants ayant les memes spécifications.

Lors de la manipulation des circuits **MOS**, respecter les pescriptions **MOS**!

(E) **Atención:** Recomendamos las normas de seguridad VDE u otras normas equivalentes, por ejemplo: VDE 701 para reparaciones, VDE 0860 / IEC 65 para aparatos!

Componentes que cumplen las normas VDE/IEC. En caso de sustitución, emplear componentes con idénticas especificaciones!

Durante la reparacion observar las normas sobre componentes **MOS**!

(USA) U.S.& Canada **Attention**: This set can only be operated from AC mains of 120 V/60 Hz. Also observe the information given on the rear of the set.
CAUTION-for continued protection against risk of fire replace only with same type fuses!
CAUTION: to reduce the risk of electric shock, do not remove cover (or back), no user-serviceable parts inside, refer servicing to qualified service personnel. Observe **MOS** components handling instructions when servicing!

(D)

Sicherheitsbestimmungen

Nach Servicearbeiten ist bei Geräten der Schutzklasse II die Messung des Isolationswiderstandes und des Ableitstromes bei eingeschaltetem Gerät nach **VDE 0701 / Teil 200** bzw. der am Aufstellort geltenden Vorschrift, durchzuführen!
Dieses Gerät entspricht der Schutzklasse II, erkennbar durch das Symbol ⧈ .

Wir empfehlen die Messungen mit dem **METRATESTER 3/4** durchzuführen. (Meßgerät zur Prüfung elektrischer Geräte nach VDE 0701).

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Ist die Sicherheit des Gerätes nicht gegeben, weil
- eine Instandsetzung unmöglich ist
- oder der Wunsch des Benützers besteht, die Instandsetzung nicht durchführen zu lassen,

so muß dem Betreiber die vom Gerät ausgehende Gefahr schriftlich mitgeteilt werden.

Empfehlungen für den Servicefall

- Nur Original - Ersatzteile verwenden.
  Bei Bauteilen oder Baugruppen mit der Sicherheitskennzeichnung ⚠ sind Original - Ersatzteile zwingend notwendig.
- Auf Sollwert der Sicherungen achten.
- Zur Sicherheit beitragende Teile des Gerätes dürfen weder beschädigt noch offensichtlich ungeeignet sein.
- Dies gilt besonders für Isolierungen und Isolierteile.
- Netzleitungen und Anschlußleitungen sind auf äußere Mängel vor dem Anschluß zu prüfen. Isolation prüfen!
- Die Funktionssicherheit der Zugentlastung und von Biegeschutz-Tüllen ist zu prüfen.
- Thermisch belastete Lötstellen absaugen und neu löten.
- Belüftungen frei lassen.

(GB)

Safety Standard Compliance

After service work on a product conforming to the Safety Class II, the insulating resistance and the leakage current with the product switch on must be checked according to VDE 0701 or to the specification valid at the installation location!
This product conforms to the Safety Class II, as identified by the symbol ⧈ .

We recommend that the measurements are carried out using the **METRATESTER 3/4.** (Test equipment for checking electrical products to VDE 0701).

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If the safety of the product is not proved, because
- a repair and restoration is impossible
- or the request of the user is that the restoration is not to be carried out,

the operator of the product must be warned of the danger by a written warning.

Recommendation for service repairs

- Use only original spare parts.
  With components or assemblies accompanied with the Safety Symbol ⚠ only original-spare parts are strictly to be used.
- Use only original fuse value.
- Safety compliance, parts of the product must not be visually damaged or unsuitable. This is valid especially for insulators and insulating parts.
- Mains leads and connecting leads should be checked for external damage before connection. Check the insulation!
- The functional safety of the tension relief and bending protection bushes are to be checked:
- Thermally loaded solder pads are to be suck off and re-soldered.
- Ensure that the ventilation slots are not obstructed.

(F)

Prescriptions de securite

Suite aux travaux de maintenance sur les appareils de la classe II, il convient de mesurer la résistance d'isolement et le courant de fuite sur l'appareil en état de marche, contormément á la norme VDE 0701 § 200, ou selon les prescriptions en vigueur sur le lieu de fonctionnement de l'appareil!

Cet appareil est conforme aux prescriptions de sécurité classe II, signaléé par le symbole ⧈ .

Pour ces mesures, nous préconisons l´utilisation du **METRA–TESTER 3/4** (instrument de mesure pour le contrôle d'appareils électriques conformes á la norme VDE 0701).

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Dans le cas où la sécurité de l'appareil n´est pas assurée pour les aisons suivantes:

- la remise en état est impossible
- l'utilisateur ne souhaîte pas la remise en état de l'appareil.

l'utilisateur doit être informé par écrit du danger que représente lùtili sation de l'appareil.

Recommandations pour la maintenance

- Utiliser exclusivement des piéces de rechange d'origine. Les composants et ensembles de composants signalés par le symbole ⚠ doivent être impérativement remplacés par des pièces d'origine.
- Respecter la valeur nominale des fusibles.
- Veiller au bon état et la conformité des pièces contribuant à la sécurité de fonctionnement de l'appareil. Ceci s'applique particuliérement aux isolements et pièces isolantes.
- Véritier le bon état extérieur des câbles secteur et des câbles de raccordement au point de vue isolement avant la mise sous tènsion.
- Véritier le bon état des protections de gaine.
- Nettoyer les soudures avant de les renouveler.
- Dégager les voies d'aération.

(I)

Norme di sicurezza

Successivamente ai lavori di riparazione, negli apparecchi della classe di protezione II occorre effettuare la misura della resistenza di isolamento e della corrente di dispersione quando l'apparecchio e'acceso, secondo le norme VDE 0701 / parte 200 e rispettivamente le norme locali!

Questo apparecchio corrisponde alla classe di protezione II ed è riconoscibile dal simbolo ⧈ .

Si raccomanda di effettuare le misure con lo strumento **METRA–TESTER 3/4** (strumento di misura per il controllo di apparecchi elettrici secondo VDE 0701).

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Se la sicurezza dell'apparecchio non è raggiunta, perchè

- una riparazione non è possibile
- oppure è desiderio del cliente che una riparaz. non avvenga in questi casi si deve comunicare per iscritto all'utilizzat.

la pericolosità dell'apparecchio riguardo il suo isolamento.

Raccomandazione per il servizio assistenza

- Impiegare solo componenti originali:
  I componenti o i gruppi di componenti contraddistinti dall' indicaz. ⚠ devono assolutamente venir sostituiti con parti originale.
- Osservare il valore nominale dei fusibili.
- I componenti che concorrono alla sicurezza dell´apparecchio non possono essere nè danneggiati nè risultare visibilmente inadatti. Questo vale soprattutto per isolamenti e parti isolate.
- I cavi di rete e di collegamento vanno controllati prima dell'utilizzo affinchè non presentino imperfezioni esteriori. Controllare l'isola mento.
- E´necessario controllare la sicurezza dei fermacavi e delle guaine flessibili.
- Saldature caricate termicam. vanno rifatte.
- Lasciare libere le fessure di areazione.

(E)

DISPOSICIONES PARA LA SEGURIDAD

Después de operaciones de servicio en aparatos de la clase de proteccion II, se llevará a cabo la medida de la resistencia de aislamiento y de la corriente derivada, con el aparato conectado, de acuerdo con VDE 0701 o de las disposiciones vigentes en el lugar de instalación .

Este aparato corresponde a la clase de protección II, reconocible por el sìmbolo ⧈ .

Aconsejamos llevar a cabo las medidas con el **METRATESTER 3/4** (Instrumento de medida para la comprobación de aparatos eléctricos según VDE 0701).

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Si no se cumple la seguridad del aparato, porque

- la puesta en orden es imposible, o
- esiste el desco del usuario de no realizarla, se ha de comunicar a quien lo haga funcionar, por escrito, del peligro dimanante del aparato.

Recomendaciones para caso de servicio

- Emplear sólo componentes originales.
  Con componentes o grupos constructivos con el indicativo de se guridad ⚠ son de obligada necesidad piezas de repuesto originales.
- Las partes del aparato que contribuyan a la seguridad del mismo no deben estar deterioradas ni ser manifiestamente inadecuadas.
- Esto es especialmente válido para aislamientos o piezas aislantes.
- Los cables de red y de conexión se comprobarán, antes de concc tarlos, en cuanto a defectos externos. Comprobar el aislamiento.
- Se ha de comprobar la función de seguridad de la compensación de tiro o de los manguitos de protección contra doblamientos.
- Repasar los puntos de soldadura sometidos a carga térmica.
- Mantener libres los canales aireación.

USA U.S.& Canada

Safety Instructions

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage", within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
- Retain Instructions - The safety and operating instructions should be retained for future reference.
- Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
- Follow Instructions - All operating and use instructions should be followed.
- Water and Moisture - The appliance should not be used near water-for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
- Wall or Ceiling Mounting - The appliance should be mounted to wall or ceiling only as recommended by the manufacture.
- Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built - in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- Power Sources - The appliance should be connected to a power supply only of the type given above or as marked on the appliance.
- Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- Cleaning - The appliance should be cleaned only as recommen ded by the manufacturer.
- x1 Power Lines - An outdoor antenna should be located away from power lines.
- x2 Outdoor Antenna Grounding - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI / NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
- Nonuse Periods - The power cord of the appliance shold be un plugged from the outlet when left unused for a long period of time.
- Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- Damage Requiring Service - The appliance should be serviced by qualified service personnel when: The power-supply cord or the plug has been damaged; or objects have fallen, or liquid has bee spilled into the appliance; or the appliance has been exposed to rain; or the appliance does not appear to operate normally or exhibits a marked change in performance; or the appliance has been dropped, or the enclosure damaged; or the batteries have been damaged.
- Servicing - the user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel .

Items x1 and x2 apply only to receivers or tuners.

D

Sicherheitshinweise zu Lithium-Batterien

Vorsicht bei Lithium-Batterien:

Bei falscher Handhabung (Überhitzung, Falschpolung oder Kurzschluß) der Lithium-Batterien besteht Explosionsgefahr!
Lithium-Batterien dürfen **nur** gegen **Original-Ersatzteile** (s. Ersatzteilliste) getauscht werden.

GB USA U.S.& Canada

Safety cautions for Lithium Batteries

Warning! Lithium Batteries:

Wrongly used lithium batteries (excessive heat, wrong connection of terminals, short circuit) represent a danger of explosion!
Lithium batteries must be replaced **only** by **original spare parts** (see Spare Parts List).
Please observe the appropriate disposal regulations for exhausted lithium batteries.

S

Varning

Eksplosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

SF

Varoitus

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

DK

Advarsel!

Lithiumbatteri - eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri til de offentlige indsamlingssteder.
Udskiftning må kun foretages af en sagkyndig, og som beskrevet in servicemanualen.

(D) CHIP Technik

Aus- und Einlöten von CHIP-Bauteilen
- Verwenden Sie nur einen Niedervoltlötkolben mit Temperaturregelung.
- Die Löttemperatur sollte ca. 240 °C betragen (max. 300 °C).
- Halten Sie die Lötzeit so kurz wie möglich.
- Belassen Sie CHIP-Bauteile bis zur Bearbeitung in der Originalverpackung. Damit wird die Oxidation der Stirnkontakte vermieden.
- Berühren Sie CHIP- Bauteile nicht mit der bloßen Hand.

Auslöten von CHIP-Bauteilen

1. Schritt: CHIP- Lötstelle mit Sauglitze absaugen (Fig. 1).
2. Schritt: CHIP-Enden, bzw. das komplette CHIP-Bauteil erwärmen. CHIP von der Klebung ohne Kraftaufwand abdrehen, damit unter dem CHIP liegende Leiterbahnen nicht abgerissen werden (Fig. 2).

Achtung!
Ausgelötetes CHIP nicht wiederverwenden!
Die leitende Schicht kann ausgebrochen sein.

Einlöten von CHIP-Bauteilen

3.Schritt: Lötpunkt von Lötrückständen säubern. Lötperle anbringen (Fig. 3).
4. Schritt: CHIP an der Lötstelle ansetzen, zentrieren und anlöten (Fig. 4).
5.Schritt: Freie Seite löten. Nach dem Erkalten die erste Lötstelle nochmals nachlöten (Fig. 5).

(I) Tecnica CHIP

Saldatura e dissaldatura di componenti MOS
- Impiegare un saldatore a basso voltaggio con regolazione della temperatura.
- Temperatura del saldatore: ca. 240 °C (valore massimo 300 °C).
- Il tempo di saldatura deve essere il più breve possibile.
- Il componente CHIP deve rimanere nell'imballaggio originale fino al momento del suo impiego per evitare che le superfici di contatto si ossidino.
- Non toccare i componenti CHIP con mani nude.

Dissaldatura di un CHIP

1. Aspirare i punti di saldatura del CHIP con una calza dissaldante (Fig. 1).
2. Riscaldare le superfici di contatto del CHIP risp. te tutto il CHIP e staccarlo con cautela. Attenzione a non esercitare for za per non danneggiare le piste sottostanti (Fig. 2).

Attenzione!
Non impiegare più il CHIP dissaldato, perchè il corpo elettrico può presentare delle rotture.

Saldatura di un CHIP

3. Pulire il punto dai residui di saldatura. Applicare una goccia di stagno (Fig. 3).
4. Appoggiare il CHIP sul punto di saldatura, centrarlo e quindi saldarlo (Fig. 4).
5. Saldare la superfici di contatto libera e, dopo che questa si è raffreddata, saldare nuovamente la superfici opposta (Fig. 5).

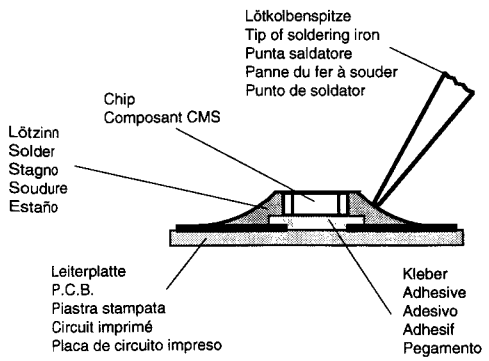


Fig. 1

(GB) CHIP Technology

Soldering and unsoldering of CHIP components
- Use only low-voltage soldering irons with temperature control.
- Permissible soldering temperatures are approx. 240 °C up to max. 300 °C.
- Keep the soldering period as short as possible.
- Keep the CHIP components in their original packages until they are used to avoid oxidation of the end contacts.
- Do not touch CHIP components with bare hands.

Unsoldering of CHIP components

1. step: Clean the CHIP soldering point with a solder wick (Fig. 1).
2. step: Warm up the ends of the CHIP or the whole CHIP component and remove the CHIP from the adhesive by turning it without application of force so that the tracks beneath the CHIP do not break (Fig. 2).

Attention!
Do not use unsoldered CHIPS any more!
The conductive layer may be broken.

Soldering of CHIP components

3. step: Remove possible residues from the soldering point. Then apply a solder bead (Fig. 3).
4. step: Put the CHIP onto the soldering point, then center and fix it (Fig. 4).
5. step: Solder the free end of the CHIP and resolder the first soldering point after it has cooled (Fig. 5).

(F) Technologie CMS

Soudure des composants CMS
- Utiliser exclusivement un fer à souder à basse tension et réglage thermique
- La température de soudure doit être de 240 °C environ (max. 300 °C).
- L'opération doit être très brève.
- Conserver les composants CMS dans leur emballage d'origine jusqu'au moment de leur utilisation, ceci pour éviter l'oxydation des contacts externes.
- Ne pas toucher les composants CMS à la main nue.

Dessoudage des composants CMS

1. Aspirer la soudure du composant CMS à la l'aide de la tresse à souder (Fig. 1).
2. Chauffer légèrement les contacts externes du composant CMS ou le composant lui-même. Retirer ce dernier avec précaution en le tournant afin d'évìter un arrachement des circuits imprimés situés sous le composant (Fig. 2).

Attention!
Ne pas réutiliser les composants CMS, la face conductrice pouvant être endomagée.

Soudure des composants CMS

3. Aspirer les restes de soudure sur le circuit. Poser une pointe de soudure (Fig. 3).
4. Poser le composant CMS sur cette pointe de soudure, centrer et souder. Maintenir le composant CMS à l'aide d'une pince brucelle (Fig. 4).
5. Effectuer la même opération pour l'autre coté. Terminer la première soudure (Fig. 5).

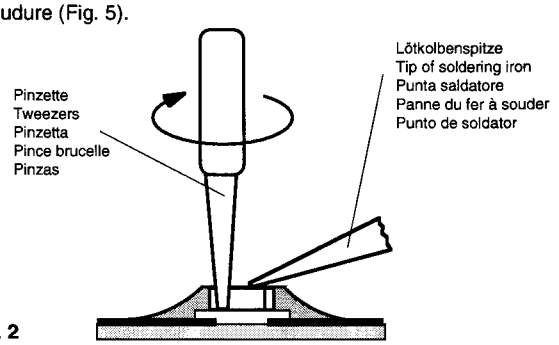


Fig. 2

(E) Técnica de CHIP´s

Soldaje y desoldaje de CHIP´s

- Emplear sólo un soldador de bajo voltaje con regulación de temperatura.
- La temperatura del soldador debe ser de aprox. 240 °C (máx. 300 °C).
- El tiempo de soldadura debe de ser lo más corto posible.
- Dejar los componentes CHIP hasta su montaje en el embalaje original. Con ello se evita la oxidación de los contactos frontales.
- No tocar con las manos los componentes CHIP.

Desoldaje de un CHIP

Primer paso: Aspirar el estaño del punto de soldadura con un aspirador de los tipos de pera o de resorte (Fig. 1).

Segundo paso: Calentar los extremos o todo el CHIP y girarlo con las pinzas. No hacer fuerza para que la placa de circuito impreso no resulte dañada. Cuidar de que las pistas situadas debajo del CHIP no se suelten de la placa, ya que éstas también están pegadas (Fig. 2).

Ciudado!
No volver a utilizar el CHIP desoldado. La capa eléctrica puede estar interrumpida.

Soldadura de CHIP´s

Tercer paso: Limpiar el punto de soldadura de residuos de la soldadura anterior. Poner una gota de estaño (Fig. 3).

Cuarto paso: Colocar el CHIP sobre la gota estaño, centrarlo y soldarlo (Fig. 4).

Quinto paso: Soldar la parte libre y, después enfriarse, soldar también la parte opuesta (Fig. 5).

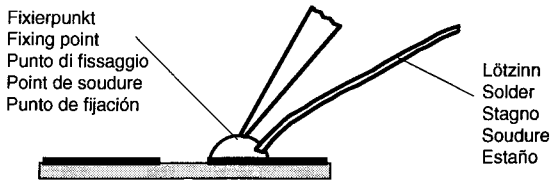


Fig. 3

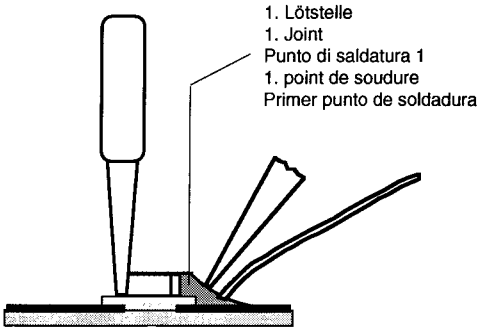


Fig. 4

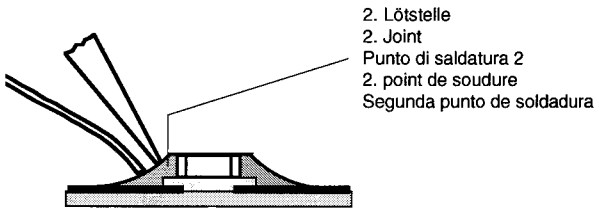


Fig. 5

(D) Behandlung von MOS - Bauelementen

Schaltungen in MOS-Technik bedürfen besonderer Vorsichtsmaßnahmen gegenüber statischer Aufladung. Statische Aufladungen können an allen hochisolierenden Kunststoffen auftreten und auf den Menschen übertragen werden, wenn Kleidung und Schuhe aus synthetischem Material bestehen.
Schutzstrukturen an den Ein- und Ausgängen der MOS-Schaltungen geben wegen ihrer Ansprechzeit nur begrenzte Sicherheit.
Bitte beachten Sie folgende Regeln, um Bauelemente vor Beschädigung durch statische Aufladungen zu schützen:

1. MOS-Schaltungen sollen bis zur Verarbeitung in elektrisch leitenden Verpackungen verbleiben. Keinesfalls MOS-Bauteile in Styropor oder Plastikschienen lagern oder transportieren.
2. Personen müssen sich durch Berühren eines geerdeten Gegenstandes entladen, bevor sie MOS-Bauteile anfassen.
3. MOS-Bauelemente nur am Gehäuse anfassen, ohne die Anschlüsse zu berühren.
4. Prüfung und Bearbeitung nur an geerdeten Geräten vornehmen.
5. Lösen oder kontaktieren Sie MOS-ICs in Steckfassungen nicht unter Betriebsspannung.
6. Bei p-Kanal-MOS-Bauelementen dürfen keine positiven Spannungen (bezogen auf den Substratanschluß VSS) an die Schaltung gelangen.

Lötvorschriften für MOS-Schaltungen:

- Nur netzgetrennte Niedervoltlötkolben verwenden.
- Maximale Lötzeit 5 Sekunden bei einer Lötkolbentemperatur von 300 °C bis 400 °C.

(GB) Handling of MOS Chip Components

MOS circuits require special attention with regard to static charges. Static charges may occur with any highly insulating plastics and can be transferred to persons wearing clothes and shoes made of synthetic materials.
Protective circuits on the inputs and outputs of MOS circuits give protection to a limited extent only due to the time of reaction.
Please observe the following instructions to protect the components against damages from static charges:

1. Keep MOS components in conductive packages until they are used. MOS components must never be stored or transported in Styropor materials or plastic magazines.
2. Persons have to rid themselves of electrostatic charges by touching a grounded object before handling MOS components.
3. Take the chip by the body without touching the terminals.
4. Use only grounded instruments for testing and processing purposes.
5. Remove or connect MOS ICs with in mounting sockets only if the operating voltage is disconnected.
6. The circuits of p-channel MOS components must not be connected to positive voltages (with reference to bulk VSS).

MOS Soldering Instructions

- Use only mains isolated low-voltage soldering irons.
- Maximum soldering period 5 seconds at a soldering iron temperature of 300 to 400 degrees Celsius.

(I)

Impiego dei componenti MOS

I circuiti in tecnica MOS necessitano di una particolare attenzione per evitare le scariche elettrostatiche.
Tutti i materiali sintetici ad alto potere isolante possono caricar si staticamente e queste cariche possono trasmettersi all´uomo, par ticolarmente se scarpe o vestiti sono sintetici.
Le strutture di sicurezza sull´ingresso e sull´uscita dei circuiti MOS hanno un´efficacia limitata a causa del loro periodo di intervento.
Per proteggere i componenti MOS dalle scariche elettrostatiche si consigla di adottare le seguenti precauzioni:

1. Fino al momento del loro impiego, i MOS devono restare in materiale elettricamente conduttivo. Non trasportarli o depositarli mai in listelli di plastica o in polistirolo.
2. Le persone che maneggiano i componenti MOS devona prima scaricar si elettrostaticamente toccando un oggetto con collegamento a massa.
3. Maneggiare i componenti MOS toccandone solo l´involucro e mai i piedini.
4. Controlli e lavorazioni devono avvenire soltanto su apparecchi con messa a terra.
5. Non inserire e non staccare mai gli integrati MOS dagli zoccoli quando la tensione di alimentazione è collegata.
6. Ai componenti MOS canale P non devono giungere tensioni positive (rif. a collegamento del substrato VSS).

Norme di taratura per gli integrati MOS:

- Impiegare solo saldatori a bassa tensione con separazione dalla rete.
- Il tempo massimo di saldatura è di 5 sec. con una temperatura del saldatore compresa fra 300 °C e 400 °C.

(F)

Précautions à prendre pour la manipulation des circuits MOS

Les circuits équipés en technique MOS exigent des précautions particulières contre les charges statiques.
Des charges statiques peuvent se créer sur toutes les matières synthétiques à fort pouvoir isolant, elles peuvent se transmettre au corps humain et le risque est d´autant plus important si la personne porte des vêtements ou des chaussures en matière synthétique.
Les systèmes de protection dont sont équipées les entrées et sorties des circuits MOS n´apportent qu´une sécurité limitée du fait de leur temps de fonctionnement.
Afin de protéger les composants contre les charges statiques, il est recommandé d´observer les règles suivantes:

1. Les circuits MOS doivent rester placés dans un matérial conducteur jusqu´au moment de leur utilisation. Il ne doivent en aucun cas être stockés ou transportés dans du styropore ou sur des bandes de plastique.
2. Les personnes travaillant sur des circuits MOS doivent au préalable se décharger de leur charge statique en touchant un object mis à terre.
3. Les ensembles équipés de circuits MOS doivent être saisis uniquement par leur boîtier, on ne doit pas toucher les broches de raccordement.
4. On ne doit effectuer de contrôles et travaux que sur des appareils mis à la terre.
5. Ne jamais retirer ou raccorder un circuit MOS sur un appareil sous tension.
6. Les circuits MOS canal p ne doivent en aucun cas recevoir de tensions positives (en VSS par rapport à la liaison vers le substrat).

Prescription de soudure sur les circuits MOS

- N´utiliser que des fers à souder basse tension isolés du secteur
- Temps de soudure maximum : 5 secondes pour une température comprise entre 300 °C et 400 °C.

(E)

Tratamiento de componentes en técnica MOS

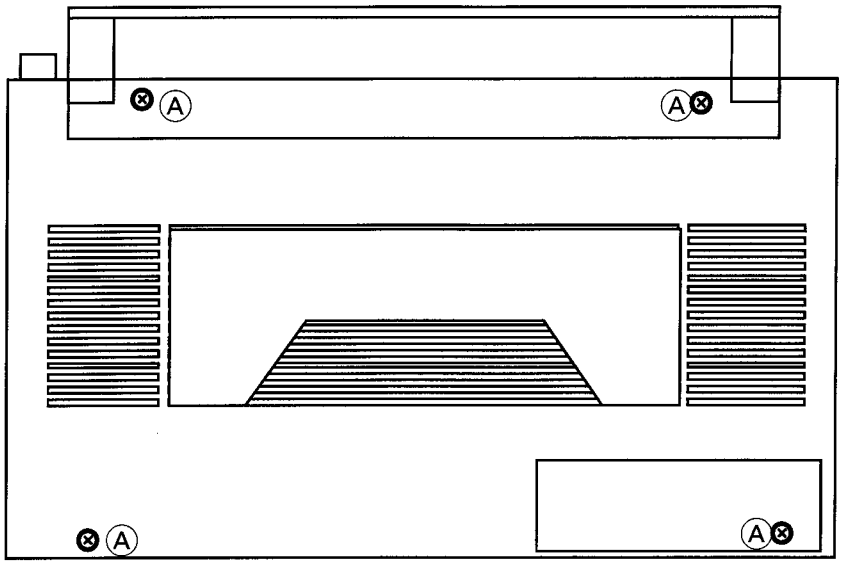
Los circuitos contruídos en técnica MOS precisan un cuidado especial contra las cargas estáticas.
En todos los materiales plásticos de elevado aislamiento pueden aparecer cargas estáticas y también ser transmitidas a la personas, especialmente cuando las ropas y zapatos son de materia sintética.
Las estructuras de protección en las entradas y salidas de los integrados MOS, debido a su tiempo de conexión, proporcionan sólo una limitada seguridad.
Para proteger los módulos de las descargas estáticas es aconsejable prestar atención a las siguientes reglas:

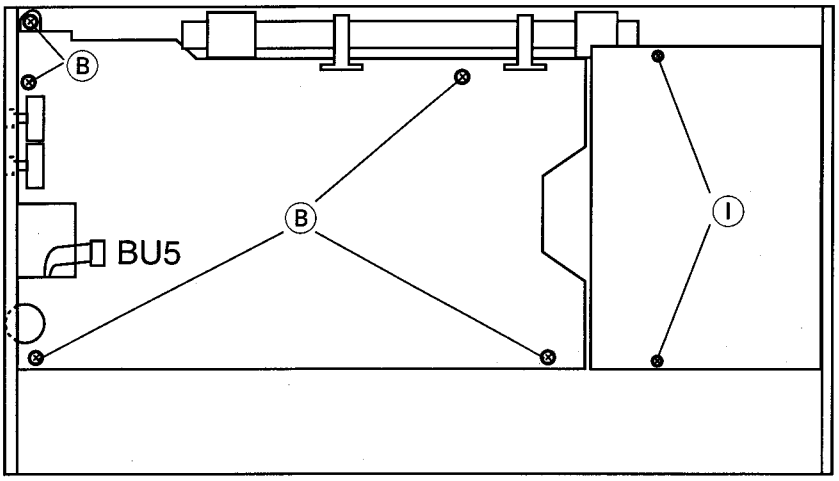
1. Los circuitos integrados MOS deben permanecer envueltos en un material conductor hasts el momento de su empleo. En ningún caso se les colocará ni transportará en recepientes de styropor o guías de plástico.
2. Las personas que trabajan con elementos MOS deben descargarse previamente tocando un objecto puesto a tierra.
3. Los elementos MOS sólo deben cogerse por la cápsula, sin rozar siquiera los terminales.
4. Pruebas y trabajos con los circuitos MOS sólo deben realizarse en aparatos que estén puestos a tierra.
5. No extraer ni establecer contacto bajo tensión de funcionamiento de los IC´s MOS enchufables.
6. En los componentes MOS canal-p no deben llegar tensiones positivas (con respecto a la tensión de substrato VSS) a los circuitos.

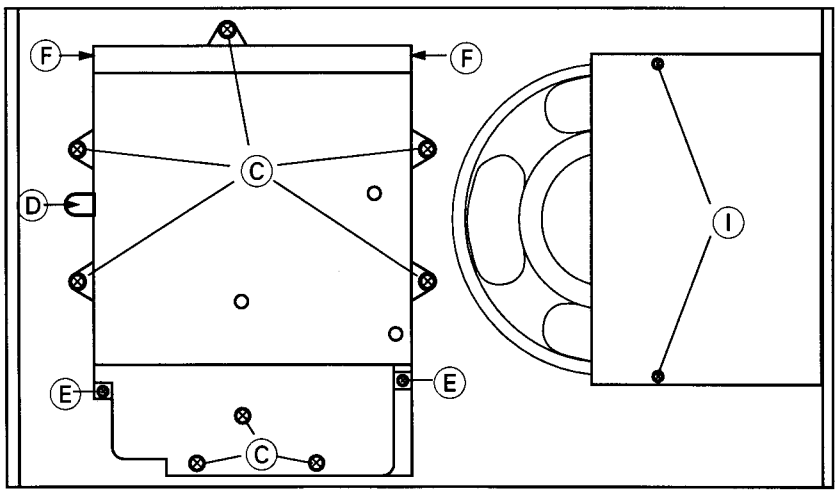
Prescipciones para la soldadura de los circuitos integrados MOS:

- Utilizar únicamente soldadores de baja tensión con transformador-separador de la red.
- Tiempo máximo de soldadura: 5 segundos con una temperatura entre 300 y 400 °C.

Ausbauhinweise Disassembly Instructions







Rückwand
- 4 Schrauben Ⓐ herausschrauben.
- Rückwand an der Bodenseite anheben und vorsichtig aufklappen. Plusleitung der Batterie abziehen.

HF - Platte
- 5 Schrauben Ⓑ herausschrauben.
- Steckverbindung BU5 lösen.
- HF-Platte rechts anheben.
  Achtung: Ferritantenne an der NF-Platte vorbeiführen.
  HF-Platte etwas nach rechts ziehen, bis sie an der linken Seite hochgeklappt werden kann.
  In dieser Stellung ist das Gerät funktionsfähig!
- Die restlichen Steckverbindungen abziehen.
- HF-Platte herausnehmen.

Digitalbaustein
- HF - Platte ausbauen.
- Handradanschlüsse ablöten
- 8 Schrauben Ⓒ herausschrauben.
- Steckverbindung zur NF-Platte lösen.
- Digitalbaustein herausnehmen.
  Achtung: Unter dem Abschirmblech ist bei Ⓓ eine Feder!

Digitalbaustein öffnen
- 2 Schrauben Ⓔ herausschrauben.
- 2 Halter Ⓕ aufbiegen.
- Platten voneinander abziehen.

NF - Platte und Potentiometerplatte
- 3 Knöpfe Ⓖ abziehen.
- 3 Muttern Ⓗ abschrauben.
- 2 Schrauben Ⓘ herausschrauben.
- Lautsprecherleitung ablöten.
- Steckverbindungen lösen.
- Masseleitung zum Lautsprechergitter ablöten.
- Beim Einbau darauf achten, daß der LOCK-Schalter in den Schalterknopf eingreift.

Displaybeleuchtung
- Digitalbaustein ausbauen und öffnen.
- Displaylampen auslöten.

Rear Panel.
- Unscrew 4 screws Ⓐ.
- Lift the rear panel at the bottom side and remove it carefully.
- Disconnect the battery plus wire.

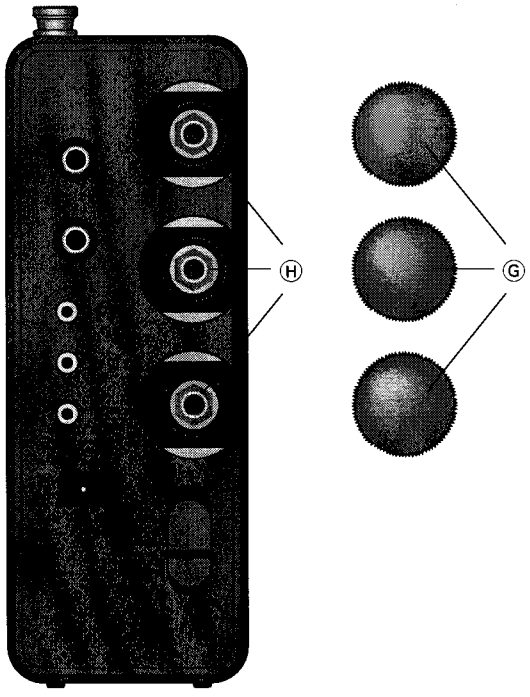
RF Board
- Unscrew 5 screws Ⓑ.
- Disconnect the plug-in connection BU5.
- Lift the RF board at the right side.
  Attention: Move the ferrite antenna past the AF board.
  Move the RF board to the right, so that its left side can be tipped up.
  In this position the unit is functionable!
- Disconnect the remaining plug-in connections.
- Remove the RF board.

Digital Unit
- Remove the RF board.
- Unsolder the connection to the hand wheel.
- Unscrew the 8 screws Ⓒ.
- Disconnect the plug-in connection to the AF board.
- Remove the digital unit.
  Attention: Under the shield there is a spring at Ⓓ .

Opening of the Digital Unit
- Unscrew 2 screws Ⓔ.
- Bend up the 2 holders Ⓕ.
- Dismantle the boards.

AF Board and Potentiometer Board
- Pull off the 3 knobs Ⓖ.
- Unscrew the 3 hexagon nuts Ⓗ.
- Unscrew the 2 screws Ⓘ.
- Unsolder the line to the loudspeaker.
- Disconnect the plug-in connections.
- Unsolder the line to the loudspeaker grill.
- When reassembling take care that the LOCK switch engages with its button.

Display illumination
- Remove the digital unit and open it.
- Unsolder the display lamps.

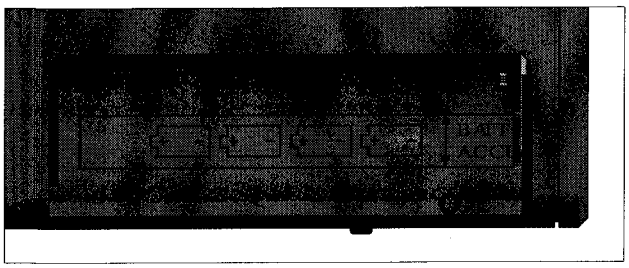


(D)

Hinweise zum Satellit 700

Spannungsversorgung

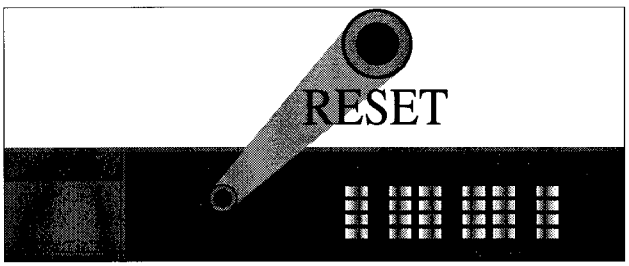
Batterie- bzw. Accu-Betrieb
Mit 4 Monozellen IEC LR 20 (Alkali-Mangan-Batterien) bzw. handelüblichen Ni Cd-Accus gleicher Größe.
- Verwenden Sie nur Accus mit dem Aufdruck 1,24V und 4000 mAh.
- Setzen Sie die Batterien bzw. Accus polarisationsrichtig ein
- *Achtung:* Bei Batteriebetrieb muß der Schiebeschalter ACCU/BATT. (im Batteriefach) in Stellung BATT. stehen. Niemals bei eingesetzten Batterien den Schalter auf ACCU stellen bzw. stehen lassen (Anzeige ACCU).



Für Schäden, die durch unsachgemäßes Benutzen der Ladeeinrichtung entstehen, kann keine Haftung übernommen werden.
- Bei Verwendung von Ni Cd-Accus bringen Sie den Schalter in Stellung ACCU (Anzeige ACCU).

Ladezeit
Je nach Ladezustand der Accus kann mit dem Netzteil NR90 eine Ladezeit von bis zu 4 Tagen notwendig werden (bei ausgeschaltetem Gerät). Durch die eingebaute Ladeschaltung können die Accus auch bei ständig angeschlossenem Ladegerät NR90 nicht überladen werden.
Läßt sich das Gerät nicht einschalten, oder blinkt nach dem Einschalten nur die Frequenzanzeige kurz auf, dann ist die Betriebsspannung zu gering. In diesem Fall ist der komplette Batteriesatz zu wechseln bzw. sind die Accus nachzuladen.
- Verbrauchte Batterien sofort herausnehmen!
- Während längerer Betriebspausen auch neue Batterien aus dem Gerät nehmen!
  Für Schäden, die durch auslaufende Batterien entstehen, kann nicht gehaftet werden.

RESET-Taste
Sollte durch äußere Störeinflüsse (hervorgerufen durch statische Aufladungen von Teppichböden oderaufgrund von Gewittern usw.), die Bedienelektronik des Satellit 700 Fehlinformationen bekommen, bzw. die Eingabe völlig blokkiert sein, so betätigen Sie die RESET-Taste in der MEMOFILE-Box mit einem spitzen Gegenstand.
Das Gerät wird dadurch in eine Grundprogrammierung zurückgesetzt. Stationsspeicher werden nicht gelöscht.



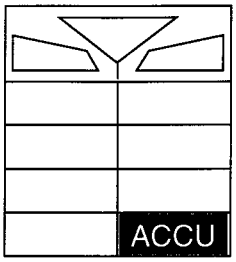
Datensicherung
Durch eine auf der Bedienplatte eingebaute, aufladbare Stützbatterie (Lithiumbatterie, wird automatisch aufgeladen, wenn das Gerät betriebsbereit ist) bleiben nach dem Ausschalten alle Speicherinhalte erhalten, auch wenn das Gerät von seiner Betriebsspannung getrennt wird. Die Uhr läuft weiter, wird aber nicht angezeigt. Der Erhalt dieser Daten ist für ca. 1500 Stunden gewährleistet.
Beachten Sie bitte die Sicherheitshinweise für Lithiumbatterien auf Seite 5.

(GB)

Notes for the Satellit 700

Power Supply

Battery or Accumulator Operation
With 4 "HP2" batteries IEC LR 20 (alkaline-manganese batteries) or Ni Cd accumulators of same size (commercially available).
- Only use accumulators with the inscription 1,24 V and 4000 mAh.
- Insert the batteries or accumulators with cirrect polarity.
- Attention: For battery operation, the slider switch ACCU/BATT. (in the battery compartment) must be set to BATT. When batteries are inserted, never set the switch to ACCU or leave it in this position (indication ACCU). No responsibility can be accepted for damage due to wrong operation of charging unit.



- When using Ni Cd accumulators, the switch must be set to ACCU (Indication ACCU).

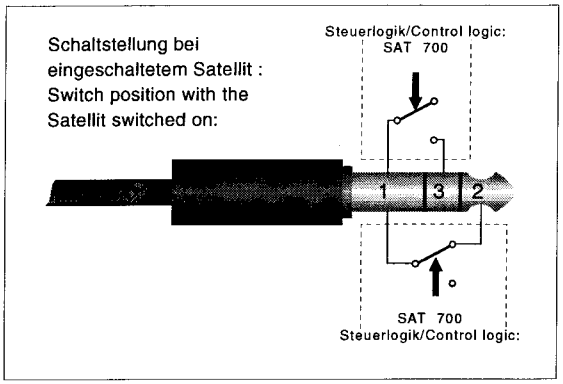
Charging Time
With the AC adapter NR90, a charging time of up to 4 days will be required, depending on the charging state of the accumulators. Because of a inbuilt charging circuit the accumulators cannot be overloaded even nor if the AC adapter NR90 is permanently connected.
If the set cannot be switched on, or if the frequency indication only briefly flashes after switching on, then the supply voltage is too low. If this should be the case, replace the complete set of batteries or recharge the accumulators.
- Always remove exhausted batteries immediately!
- If the set is not in use for longer periods, remove batteries even if they are new!
  No responsibility can be accepted for damage due to leaking batteries.

RESET Button
If, due to external interferences (caused by static charges of carpets, thunderstorms, etc.), the control electronic of the Satellit 700 should receive wrong information signals, or if no entries at all are possible, then press the RESET button in the MEMOFILE box by a pointed object. By that the unit is reset to its basic programming values. The contents of the individual station memory positions are not affected.

Data Protection
When the set is switched off, a built-in standby battery (lithium battery, which is automatically recharged when the unit is ready for operation) protects all memories, also when no power supply is connected. The clock continues running, but the time is not displayed. Storage of data is guaranteed for a duration of 1500 hours. Observe the safety requirements for lithium batteries on page 5.

Automatische Steuerung eines Cassettengerätes

Der Satellit 700 kann ein Cassettengerät mit positiver bzw. negativer Steuerlogik bei Schaltuhr-Betrieb automatisch starten bzw. stoppen. Dazu muß ein entsprechendes Steuerkabel angefertigt werden. Die Schaltstufe zur Steuerung des Cassettengerätes arbeitet potentialfrei. Die vom Cassettengerät zugeführte Schaltspannung (max. 30V/500mA) wird an der Schaltausgangsbuchse ⊡ wie folgt beeinflußt:

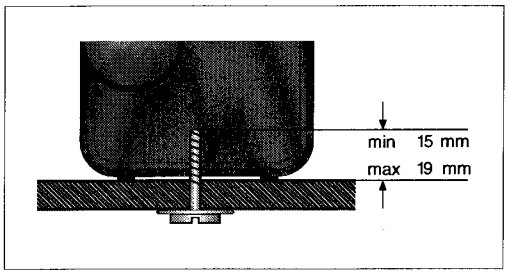


Automatic Control of a Cassette Recorder

With the Satellit 700 it is possible to automatically start and stop a cassette recorder which is equipped with a positive or negativ control logic circuit. For this, a special connecting lead must be built. The switching circuit for controlling the cassette recorder operates potential-free. The switching voltage delivered by the cassette recorder (max. 30V/500mA) is changed by the switch jack ⊡ as follows.

Befestigen des Gerätes

Der Satellit 700 läßt sich festschrauben. Hierzu sind im Boden zwei Gewindelöcher M4.
Verwenden Sie Schrauben, die mindestens 15mm und maximal 19mm länger sind, als die Materialstärke der Montageebene.



Securing the Unit

The Satellit 700 can be secured to an appropriate surface. For this, two threaded holes M4 are provided in its base. Only use screws which are at least 15mm and max. 19mm longer than the thickness of the material to which the Satellit is to be secured.

Memofiles

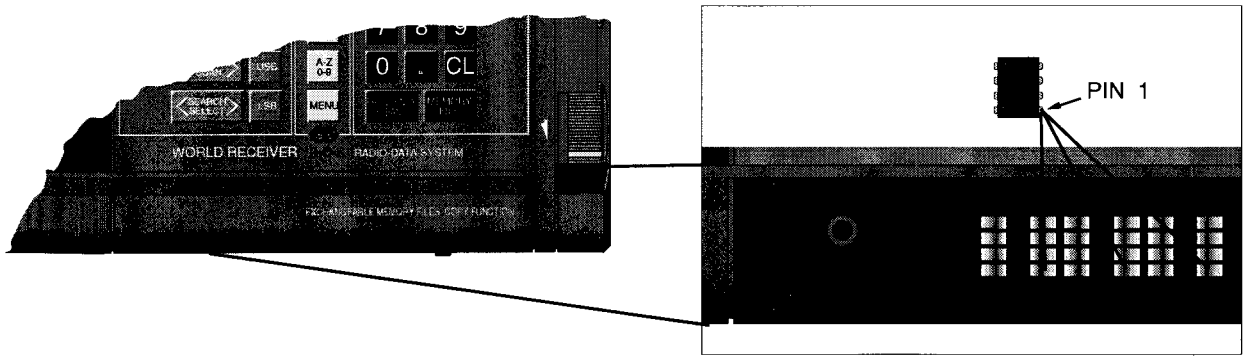
Sie haben die Möglichkeit beim Satellit 700 durch zusätliche MEMOFILES (ICs) die Speicherkapazität um 3x 512 Speicherplätzezu erweitern.
Die Einsteckplätze für 3 MEMOFILES befinden sich hinter der Klappe unterhalb des Bedienfeldes.

Es ist darauf zu achten, daß das MEMOFILE-IC polungsrichtig eingesetzt wird. Drücken Sie das MEMOFILE vorsichtig in den jeweiligen IC-Sockel. Beachten Sie auch die Nummerierung der IC-Sockel. Dies ist für den MEMOFILE-Aufruf wichtig.
Bezeichnung der MEMOFILES: X24C16-P3
Sachnummer: 8305-602-416

Memofiles

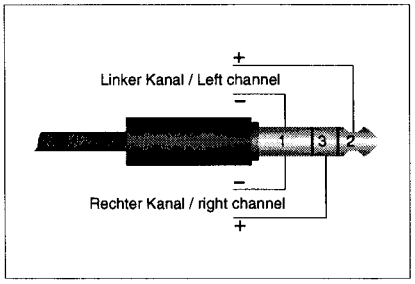
You have the possibility to increase the memory capacity of your Satellit 700 by 3x512 memory positions with additionally MEMOFILES (ICs).
The sockets for inserting 3 MEMOFILESare to be found behind the trap below the keyboard.

Ensure that the MEMOFILE IC be inserted with correct polarity. Carfully press the MEMOFILE IC into the respective socket. When doing this, also observe the numbering of the IC sockets. This is of impertance when later "calling up" the respective MEMOFILE.
Name of the MEMOFILES: X24C16-P3
Order No.:8305-602-416



Lautsprecher-Buchse

Kontaktbelegung des Steckers für zwei Außenlautsprecher.

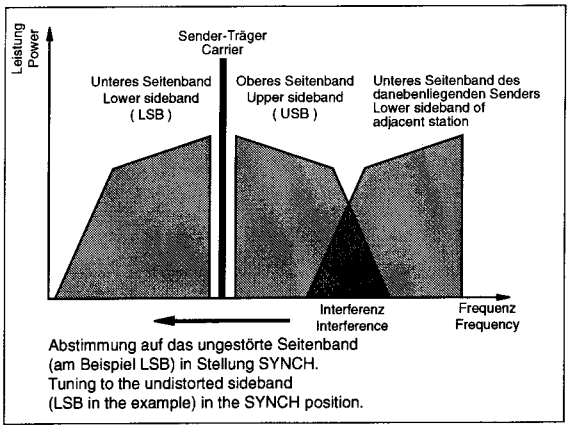


Loadspeaker Socket

Contact allocation of the plug for two external loudspeakers.

Synchrondetektor

Reicht die Bandbreiteneinstellung "schmal" nicht aus, um zwei unmittelbar nebeneinander liegende Sender ausreichend zu trennen, so können Sie mit der Synch-Funktion den Empfang optimieren. Sie können wahlweise auf unteres oder oberes Seitenband abstimmen. Einzelheiten entnehmen Sie bitte der Bedienungsanleitung (Sachnummer 15055-941.01).



Abstimmung auf das ungestörte Seitenband (am Beispiel LSB) in Stellung SYNCH.
Tuning to the undistorted sideband (LSB in the example) in the SYNCH position.

Synchronous Demodulator

If the "narrow" bandwidth setting does not suffice to separate two closely adjacent stations, there still remains the possibility to optimize station tuning by means of the synchronous demodulator. You alternatively can tune to the lower or upper sideband. For details see the instruction manual (Order No. 15055-941.01).

RDS-Testmode

Im RDS-Testmode können PI-Code und TP/TA-Schaltzustand, PS-Namen, PTY-Code und M/S-Schaltzustand, benachbarte AFs sowie die RDS-Fehlerrate angezeigt werden.

Einschalten des Testmodes:
Gerät auf FM schalten und die Taste SYNCH länger als 3 Sekunden gedrückt halten.
Beim Eintritt in den Testmode werden zuerst der PI-Code und die TP/TA-Schaltzustände im Display angezeigt (TP-Code: TP-Sender; 1=ja; 0=nein). Diese Anzeige kann aus den anderen Testfunktionen durch kurzes Drücken der Taste SYNCH erreicht werden.

PI-Code

TP TA

RDS-Qualität:
Die im Normalbetrieb mit der Taste /⎍\ abrufbare RDS-Qualitätsanzeige (Bargraph) ist im Testmode ständig aktiv. Die Barcode-Anzeige wird aus den letzten 16 empfangenen RDS-Blöcken (gleitender Mittelwert) gebildet. Hier kann die Beeinträchtigung der RDS-Qualität durch die Modulation und/oder durch die Antennenausrichtung sehr gut beobachtet werden.

RDS-Alternativfrequenzen:
Durch Betätigung der Taste LSB (kurz: nächste AF; lang: vorhergehende AF) werden die RDS-AFs nacheinander eingestellt. Es erfolgt keine Überprüfung der AFs auf Sendermitte, Feldstärke und PI-Code! Daher können alle seit der letzten RDS-Blocksynchronisation empfangenen AFs eingestellt werden, auch wenn diese am Empfangsort zu einem anderen Programm gehören.

PS-Name
Durch einmalige Betätigung der Taste USB wird der Name des RDS-Senders angezeigt. Wird der Sender nun neu eingestellt, kann in der Anzeige der Aufbau des Schriftzuges beobachtet werden. Im Normalbetrieb wird der Schriftzug erst angezeigt, wenn der Name vollständig empfangen wurde.

PTY-Code
Bei nochmaliger Betätigung der Taste USB wird der PTY-Code (dezimal; 00=nicht benützt) und der M/S-Schaltzustand (M=Musik; S=Sprache) angezeigt.

RDS-Fehlerrate
Durch Drücken der Taste /⎍\ werden die momentane und die maximale RDS-Fehlerrate seit der letzten RDS-Blocksynchronisation angezeigt. Gemessen werden jeweils 100 Blöcke (=2s).

mom.F./mom.e.r.

Werden in einer Test-Funktion nur_ _ angezeigt, sind keine RDS-Signale dekodierbar.

Der Testmode wird durch Drücken der Taste /⎍\ >3s oder durch Ausschalten des Gerätes beendet.

The RDS Test Mode

In RDS Test Mode it is possible to indicate the PI code and the TP/TA flags, the PS name, PTY code and the M/S flag, the next and previous AFs and the RDS error rate.

Switching the Test Mode on
To start the Test Mode, select the FM band and press the SYNCH button for more than 3 seconds.
When entering the Test Mode, at first PI code and TP/TA flags are shown on the display (TP code: TP broadcast station; 1 = yes; 0 = no).
This indication can be made to appear in all test functions by shortly pressing the SYNCH button

RDS Quality
The RDS quality, which is normally displayed (bar graph) by pressing the button /⎍\, is permanently shown when the Test Mode is active. The displayed bar code is built up by the last 16 of the received RDS blocks (sliding average). In this case, the impairment of the RDS quality by modulation and/or adjustment of the antenna can be observed very well.

RDS Alternative Frequencies (AF)
By pressing the LSB button (short: next AF; long: previous AF), the RDS-AFs are tuned in one after another. There is no test for the center frequency, field strength and PI code. Therefore, all AFs received since the last RDS block synchronisation can be tuned in even if they belong at the actual reception area to another programme.

PS Name
By pressing the USB button once, the name of the RDS station is displayed. After calling up a station the setup of the name can be observed in the display. In normal mode, the name is displayed only if it was received completely.

PTY Code
After pressing the USB button a second time the PTY code (decimal; 00 = not used) and the M/S flag (M = Music, S = Speech) are displayed.

PTY-Code M/S

RDS Error Rate
Pressing the button /⎍\ shows the momentary and maximum error rates since the last RDS block synchronisation. In each case 100 blocks (= 2s) are used for measurement.

Max.F./max.e.r.

Displaying _ _ in any test function means that no RDS signals can be decoded.

The Test Mode is terminated by pressing the button /⎍\ for more than 3s or by switching the receiver off.

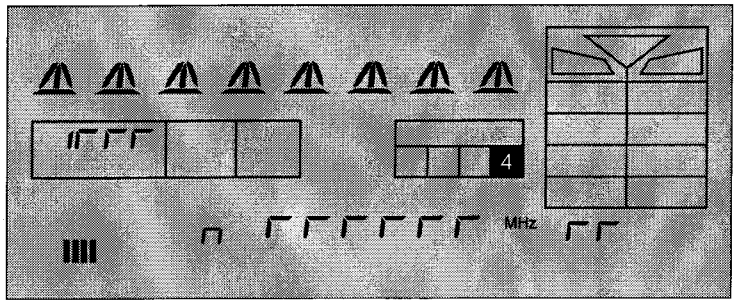
Testmode

Aktivieren des Testmodes
- Gerät ausschalten.
- Eingabe des Testcodes 050251.
- Drücken der Taste STORE.

Testmode

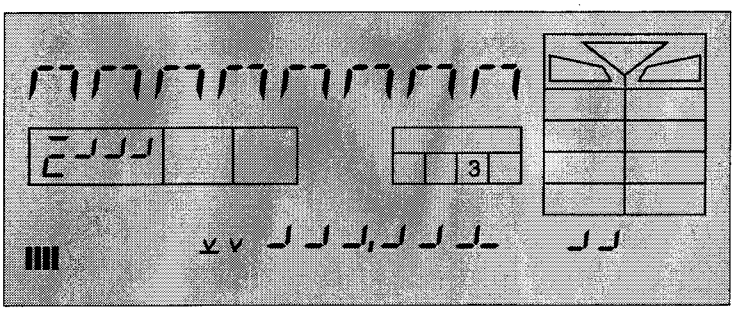
Activation of the Testmode
- Switch off the unit.
- Enter the testcode 050251.
- Push the button STORE.

Taste AUTO:
Anzeige aller Segmente COMMON 1 des Displaytreibers 1



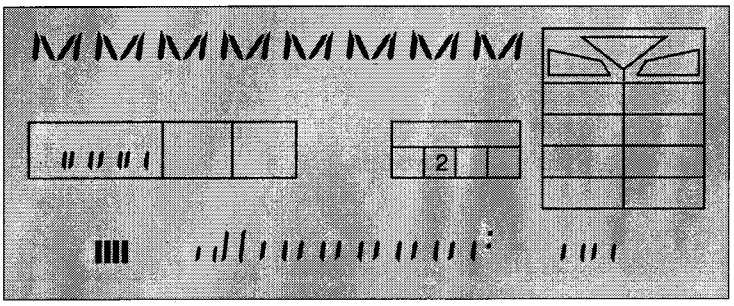
Button AUTO:
All segments of COMMON 1 of the display driver 1 lights up.

Taste SLEEP:
Anzeige aller Segmente COMMON 2 des Displaytreibers 1



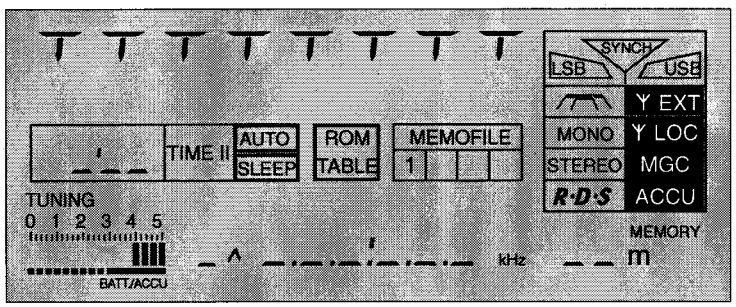
Button SLEEP:
All segments of COMMON 2 of the display driver 1 lights up.

Taste TIME I/II:
Anzeige aller Segmente COMMON 1 des Displaytreibers 2



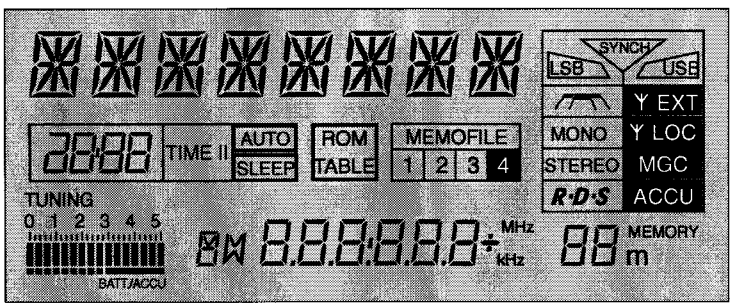
Button TIME I/II:
All segments of COMMON 1 of the display driver 2 lights up.

Taste A-Z:
Anzeige aller Segmente COMMON 2 des Displaytreibers 2



Button A-Z:
All segments of COMMON 2 of the display driver 2 lights up.

Taste MENU:
Anzeige aller Segmente



Button MENU:
All segments lights up.

Beenden des Testmodes
Der Testmode endet automatisch mit dem Ausschalten des Gerätes.

Laufschrift im Display
Ein- und Ausschalten der Laufschrift: 1 2 3 4 5 6 eingeben und Gerät einschalten.

Finishing the testmode
The testmode finishes automatically when switching off the unit.

Running letters in the display
Switching on and off the running letters: Feed in 1 2 3 4 5 6 and press the ON/OFF button.

Abgleich

Bei Batteriespannung U_B = 6 V.

Bedieneinheit

Uhrfrequenz
Voreinstellungen: keine
Einspeisung: keine
Messung: Frequenzzähler mit Tastkopf lose an Meßpunkt (12).
Abgleich: Mit C 1128 (19) 32,768 kHz ± **0,1 Hz**

PWM-Arbeitspunkt
Voreinstellungen: SW; 30 MHz
Einspeisung: keine
Messung: Voltmeter an Meßpunkt (21).
Abgleich: Mit R 1135 (21) 25 V -2 V/+ 0V

HF-Platte

Bei Geräten in Italien Version muß die Diode D11 eingelötet werden.

6,275 MHz-Referenz
Voreinstellungen: keine
Einspeisung: keine
Messung: Frequenzzähler mit Tastkopf lose an Meßpunkt (13).
Abgleich: Mit C 138 (2) 6,275 MHz ± **50 Hz** einstellen

54,05 MHz-Referenz
Voreinstellungen: keine
Einspeisung: keine
Messung: Frequenzzähler mit Tastkopf lose an Meßpunkt (19).
Abgleich: Mit C 154 (20) 54,05 MHz ± **100 Hz** einstellen

VCO 2
Voreinstellungen: LW; 150 kHz
Einspeisung: keine
Messung: Voltmeter an Meßpunkt (4).
Abgleich: Mit C 217 (4) 25 V ± 150 mV einstellen.

VCO 1
Voreinstellungen: LW; 150 kHz / SW; 30 MHz
Einspeisung: keine
Messung: Voltmeter an Meßpunkt (20).
Abgleich: Mit L 411 (7A) bei 150 kHz 3,5 V ± 50 mV einstellen.
Mit C 403 (7B) bei 30 MHz 17 V ± 100 mV einstellen.
Abgleich wechselseitig wiederholen.

3,6 MHz (Grobabgleich)
Voreinstellungen: SW / USB; Clarify-Regler Mittelstellung
Einspeisung: keine
Messung: Voltmeter an Meßpunkt (6).
Abgleich: Mit R 812 (6) 1,65 V ± 50 mV einstellen.

AM-ZF 2 und 1
ZF 2:
Voreinstellungen: MW; 1612 kHz; Bandbreite schmal; Kern der Spule L 502 (9C) bündig mit Becheroberkante voreinstellen;
Einspeisung: Wobbler 450 kHz an Meßpunkt (9).
Messung: Oszilloskop an Meßpunkt (8).
Abgleich: Mit L 409 (9A) und L 501 (9B) auf Maximum und Symmetrie, danach mit L 502 (9C) auf Maximum einstellen.
ZF 1:
Voreinstellungen: MW; 1612 kHz; Bandbreite schmal; F5 (10A) nach innen verstimmen;
Einspeisung: Wobbler 1612 kHz/400 Hz/ 30% an Meßpunkt (10).
Messung: Oszilloskop an Meßpunkt (8).
Abgleich: Mit F7 (10B) auf Mitte, danach mit F5 (10A) auf Symmetrie einstellen.
F7 (10B) mit Sendersignal 1612 kHz/400 Hz/ 30% abschließend auf NF-Maximum an Meßpunkt (17) oder (18) abgleichen.

Alignment

At batterie voltage U_B = 6 V.

Operating Unit

Clock frequency
Presettings: none
Feeding: none
Measuring: Frequency counter with probe loosely to testpoint (12).
Alignment: Adjust C 1128 (19) to 32,768 kHz ± **0,1 Hz**

PWM Operating point
Presettings: SW; 30 MHz
Feeding: none
Measuring: Voltmeter to testpoint (21).
Alignment: Adjust R 1135 (21) to 25 V -2 V/+ 0V

RF-Board

At units in Italian version diode D11 must be soldered in.

6,275 MHz Reference
Presettings: none
Feeding: none
Measuring: Frequency counter with probe to testpoint (13).
Alignment: Adjust C 138 (2) to 6,275 MHz ± **50 Hz**

54,05 MHz-Reference
Presettings: none
Feeding: none
Measuring: Frequency counter with probe loosely to testpoint (19).
Alignment: Adjust C 154 (20) to 54,05 MHz ± **100 Hz**

VCO 2
Presettings: LW; 150 kHz
Feeding: none
Measuring: Voltmeter to testpoint (4).
Alignment: Adjust C 217 (4) to 25 V ± 150 mV.

VCO 1
Presettings: LW; 150 kHz / SW; 30 MHz
Feeding: none
Measuring: Voltmeter to testpoint (20).
Alignment: Adjust L 411 (7A) at 150 kHz to 3,5 V ± 50 mV.
Adjust C 403 (7B) at 30 MHz to 17 V ± 100 mV.
Repeat the adjustment reciprocally.

3,6 MHz (coarse adjustment)
Presettings: SW / USB; Clarify control to middle position
Feeding: none
Measuring: Voltmeter to testpoint (6).
Alignment: Adjust R 812 (6) to 1,65 V ± 50 mV.

AM-IF 2 and 1
IF 2:
Presettings: MW; 1612 kHz; bandwidth narrow; Preadjust the core of the coil L 502 (9C) flushly with the upper end of the bobbin;
Feeding: Sweep generator 450 kHz to testpoint (9).
Measuring: Oscilloscope to testpoint (8).
Alignment: Adjust L 409 (9A) and L 501 (9B) to maximum and symmetry, than L 502 (9C) to maximum.
IF 1:
Presettings: MW; 1612 kHz; bandwidth narrow; detune F5 (10A) to the inner;
Feeding: Sweep generator 1612 kHz/400 Hz/ 30% to testpoint (10).
Measuring: Oscilloscope to testpoint (8).
Alignment: Adjust F7 (10B) to center, than F5 (10A) to symmetry.
Finally adjust F7 (10B) with test signal 1612 kHz/400 Hz/ 30% to AF maximum at testpoint (17) or (18).

SW-Vorkreise
Voreinstellungen: SW; Antennenschalter auf INT; Empfindlichkeitsschalter auf DX; Teleskopantenne ablöten.
Einspeisung: Wobbler über 15 pF an Meßpunktt (11).
Messung: Oszilloskop an Meßpunkt (10).
Abgleich: Jeweils auf Maximum abgleichen:

Frequenz	Abgleichpunkt
SW1-1612 kHz	L 212 (11A) und L 213 (11B).
SW1-4095 kHz	C 224 (11C) und C 226 (11D).
SW2-4096 kHz	L 214 (11E) und L 215 (11F).
SW2-8191 kHz	C 231 (11G) und C 223 (11H).
SW3-8192 kHz	L 216 (11J) und L 217 (11K).
SW3-20479 kHz	C 237 (11I) und C 241 (11M).
SW4-20480 kHz	L 218 (11N) und L 219 (11O).
SW4-30000 kHz	C 243 (11P) und C 246 (11Q).

3,6 MHz (Feinabgleich)
Voreinstellungen: SW/USB; Antennenschalter auf EXT
Einspeisung: Meßsender an Antennenbuchse.
22200 kHz unmoduliert
Messung: keine
Abgleich: Mit C 818 (6B) auf Schwebungsnull abgleichen.

MW/LW-Vorkreise
Voreinstellungen: MW/LW
Einspeisung: Sendersignal über Rahmen einblasen;
Modulation 400 Hz / 30 %
Messung: Oszilloskop an Meßpunkt (17) oder (18).
Abgleich: Jeweils auf Maximum abgleichen:

Frequenz	Abgleichpunkt
MW 528 kHz	L 209 (12A)
MW 1611 kHz	C 209 (12B)
LW 150 kHz	L 208 (12C)
LW 353 kHz	C 213 (12D)

Bei Geräten in Italien-Version muß die Diode D11 wieder entfernt werden.

FM-Oszillator
Voreinstellungen: FM 87,5 MHz/108 MHz
Einspeisung: keine
Messung: Voltmeter an Meßpunkt (1).
Abgleich: Mit L 308 (E) bei 87,5 MHz 2,5 V ± 50 mV einstellen.
Mit C 324 (F) bei 108 MHz 25 V ± 100 mV einstellen.
Abgleich wechselseitig wiederholen.

FM-ZF
Voreinstellungen: FM 93 MHz; Antennenschalter auf EXT.
Einspeisung: Wobbler an Antennenbuchse.
Messung: Oszilloskop an Meßpunkt (14).
Abgleich: Mit F1 (14A) auf Maximum und Symmetrie abgleichen.
Eventuell mit C 531 (22) Nulldurchgang der S–Kurve voreinstellen.

FM-Vor- und Zwischenkreise
Voreinstellungen: FM; Antennenschalter auf EXT.
Einspeisung: Meßsender an Antennenbuchse; FM, f_{mod} = 1 kHz, Δf = 22,5 kHz;
Messung: Oszilloskop an Meßpunkt (17) oder (18).
Abgleich: Mit L 302 (A) bei 88 MHz Maximum einstellen.
Mit C 304 (B) bei 106 MHz Maximum einstellen.
Abgleich wechselseitig wiederholen.
Mit L 304 (C) und L 305 (D) bei 95 MHz Maximum einstellen.
Abgleich wechselseitig wiederholen.

Klirrfaktor
Voreinstellungen: FM; Antennenschalter auf EXT.
Einspeisung: Meßsender an Antennenbuchse;
FM, f_{mod} = 1 kHz,1 mV, Δf = 22,5 kHz;
Messung: Klirrfaktormessgerät an Meßpunkt (15).
Abgleich: Mit L 504 (15) bei 95 MHz Minimum einstellen.

SW-RF circuit
Presettings: SW; Aerial switch to INT; Distant/Local switch to DX; unsolder the telescopic aerial.
Feeding: Sweep generator with 15 pF to testpoint (11).
Measuring: Oscilloscope to testpoint (10).
Alignment: Adjust all to maximum:

Frequency	Alignment point
SW1-1612 kHz	L 212 (11A) and L 213 (11B).
SW1-4095 kHz	C 224 (11C) and C 226 (11D).
SW2-4096 kHz	L 214 (11E) and L 215 (11F).
SW2-8191 kHz	C 231 (11G) and C 223 (11H).
SW3-8192 kHz	L 216 (11J) and L 217 (11K).
SW3-20479 kHz	C 237 (11I) and C 241 (11M).
SW4-20480 kHz	L 218 (11N) and L 219 (11O).
SW4-30000 kHz	C 243 (11P) and C 246 (11Q).

3,6 MHz (fine adjustment)
Presettings: SW/USB; Aerial switch to EXT
Feeding: Test generator to aerial sockt.
22200 kHz unmodulated
Measuring: none
Alignment: Adjust C 818 (6B) to zero beat.

MW/LW-RF circuit
Presettings: MW/LW
Feeding: Feed in the generator signal with a frame aerial;
Modulation 400 Hz / 30 %
Measuring: Oscilloscope to testpoint (17) or (18).
Alignment: Adjust all to maximum:

Frequency	Alignment point
MW 528 kHz	L 209 (12A)
MW 1611 kHz	C 209 (12B)
LW 150 kHz	L 208 (12C)
LW 353 kHz	C 213 (12D)

At units in Italian version the diode D11 must be removed again.

FM-Oscillator
Presettings: FM 87,5 MHz/108 MHz
Feeding: none
Measuring: Voltmeter to testpoint (1).
Alignment: Adjust L 308 (E) to 2,5 V ± 50 mV at 87,5 MHz.
Adjust C 324 (F) to 25 V ± 100 mV at 108 MHz.
Repeat the adjustment reciprocally.

FM-IF
Presettings: FM 93 MHz; Aerial switch to EXT.
Feeding: Sweep generator to aerial socket.
Measuring: Oscilloscope to testpoint (14).
Alignment: Adjust F1 (14A) to maximum and symmetry.
Eventually preadjust the zero cross of the S–curve with C 531 (22).

FM-Vor- und Zwischenkreise
Presettings: FM; Aerial switch to EXT.
Feeding: Test generator to aerial socket; FM, f_{mod} = 1 kHz, Δf = 22,5 kHz;
Measuring: Oscilloscop to testpoint (17) or (18).
Alignment: Adjust L 302 (A) to maximum at 88 MHz .
Adjust C 304 (B) to maximum at 106 MHz.
Repeat the adjustment reciprocally.
Adjust L 304 (C) and L 305 (D) to maximum at 95 MHz.
Repeat the adjustment reciprocally.

Distortion Factor
Presettings: FM; Aerial switch to EXT.
Feeding: Test generator to aerial socket;
FM, f_{mod} = 1 kHz,1 mV, Δf = 22,5 kHz;
Measuring: Distortion factor meter to testpoint (15).
Alignment: Adjust L 504 (15) to minimum at 95 MHz.

Suchlauf

Voreinstellungen: FM; Antennenschalter auf EXT.
Einspeisung: Meßsender an Antennenbuchse;
FM, 95 MHz, f_{mod} = 50 Hz,100 µV, Δf = 50 kHz;
Messung: Oszilloskop; Y-Eingang an Meßpunkt (7).
X-Extern, 50 Hz an X-Eingang
Abgleich: Mit C 531 (22) den Rechteck-Impuls auf Frequenzmitte einstellen.

RDS

Voreinstellungen: FM; Antennenschalter auf EXT; F 13(24) mit 10 nF überbrücken.
Einspeisung: Meßsender an Antennenbuchse;
FM; 95 MHz; 1 mV; RDS-Normsignal oder 57 kHz-fremdmoduliert, Δf = 1,2 kHz;
Messung: NF-Voltmeter an Meßpunkt (5).
Abgleich: Mit F12 (23) Maximum einstellen.
10 nF entfernen
Mit F13 (24) Minimum einstellen.

Feldstärkeanzeige

Voreinstellungen: SW; Antennenschalter auf INT; Teleskopantenne ablöten.
Einspeisung: Meßsender an Meßpunkt (11).
22200 kHz 150 µV unmoduliert
Messung: keine
Abgleich: Mit R 533 (18) auf Tuning-Marke 4 (im Display) einstellen.

NF-Platte

Stereo 76 kHz-Oszillator

Voreinstellungen: FM; Antennenschalter auf EXT.
Einspeisung: Meßsender an Antennenbuchse;
FM; 95 MHz; 1 mV; unmoduliert;
Messung: Frequenzzähler lose an Meßpunkt (16).
Abgleich: Mit R 603 (16) auf 76 kHz ± 100 Hz einstellen.

Stereo-Übersprechen

Voreinstellungen: FM; Antennenschalter auf EXT; 3,5 mm-Stereo-linkenstecker mit 2x7,5Ω Abschlußwiderstand in Lautsprecherbuchse stecken.
Einspeisung: Stereosender an Antennenbuchse;
FM; 95 MHz; 1 mV; rechter Kanal moduliert;
Messung: NF-Voltmeter über Tiefpaß an Meßpunkt (17).
Abgleich: Mit R 605 (17) Minimum einstellen.
Einspeisung: Stereosender an Antennenbuchse;
FM; 95 MHz; 1 mV; linker Kanal moduliert;
Messung: NF-Voltmeter über Tiefpaß an Meßpunkt (18).
Abgleich: Mit R 605 (17) gegebenenfalls ausmitteln.

Station search

Presettings: FM; Aerial switch to EXT.
Feeding: Test generator to aerial socket;
FM, 95 MHz, f_{mod} = 50 Hz,100 µV, Δf = 50 kHz;
Measuring: Oscilloscope; Y-input to testpoint (7).
X-Extern, 50 Hz into X-input
Alignment: By using C 531 (22) adjust the square pulse to frequency middle.

RDS

Presettings: FM; Aerial switch to EXT; short circuit F 13(24) with a 10 nF capacitor.
Feeding: Test generator to aerial socket;
FM; 95 MHz; 1 mV; RDS standard signal or 57 kHz modulated externally, Δf = 1,2 kHz;
Measuring: AF-Voltmeter to testpoint (5).
Alignment: Adjust F12 (23) to maximum.
Remove the 10 nF capacitor
Adjust minimum by F13 (24).

Field strength indication

Presettings: SW; Aerial switch to INT; unsolder the telescopic aerial.
Feeding: Test generator to testpoint (11).
22200 kHz 150 µV unmodulated
Measuring: none
Alignment: By using R 533 (18) adjust to tuning mark 4 (at Display).

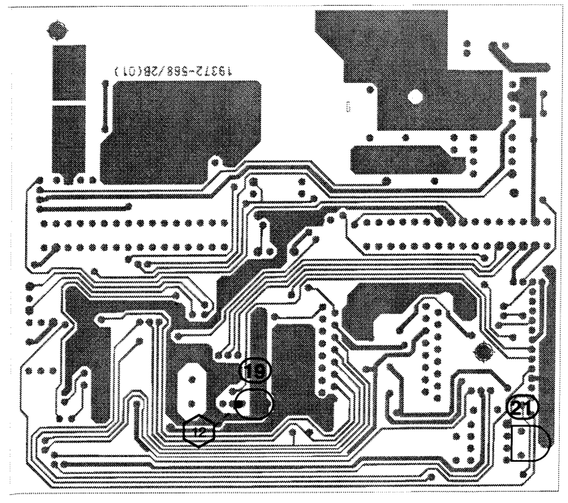
AF-Board

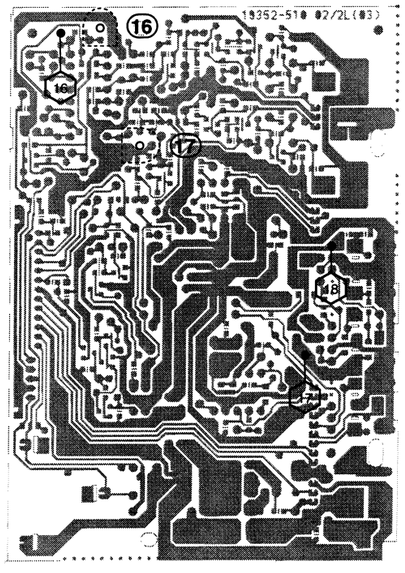
Stereo 76 kHz Oscillator

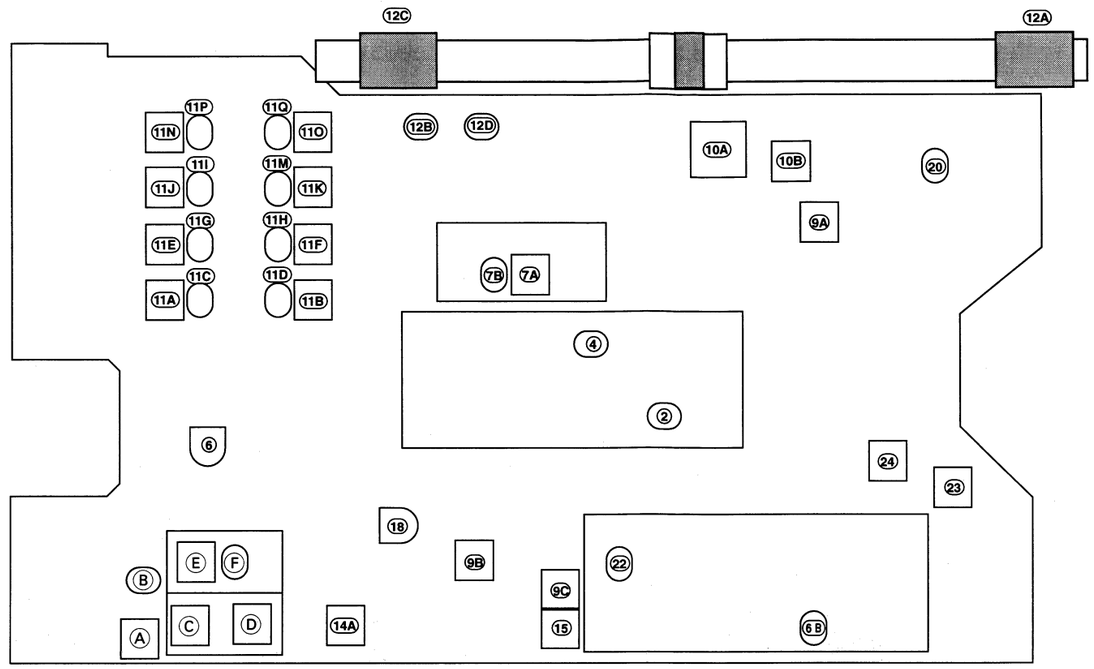
Presettings: FM; Aerial switch to EXT.
Feeding: Test generator to aerial socket;
FM; 95 MHz; 1 mV; unmodulated;
Measuring: Frequency counter loosely to testpoint (16).
Alignment: By using R 603 (16) adjust 76 kHz ± 100 Hz.

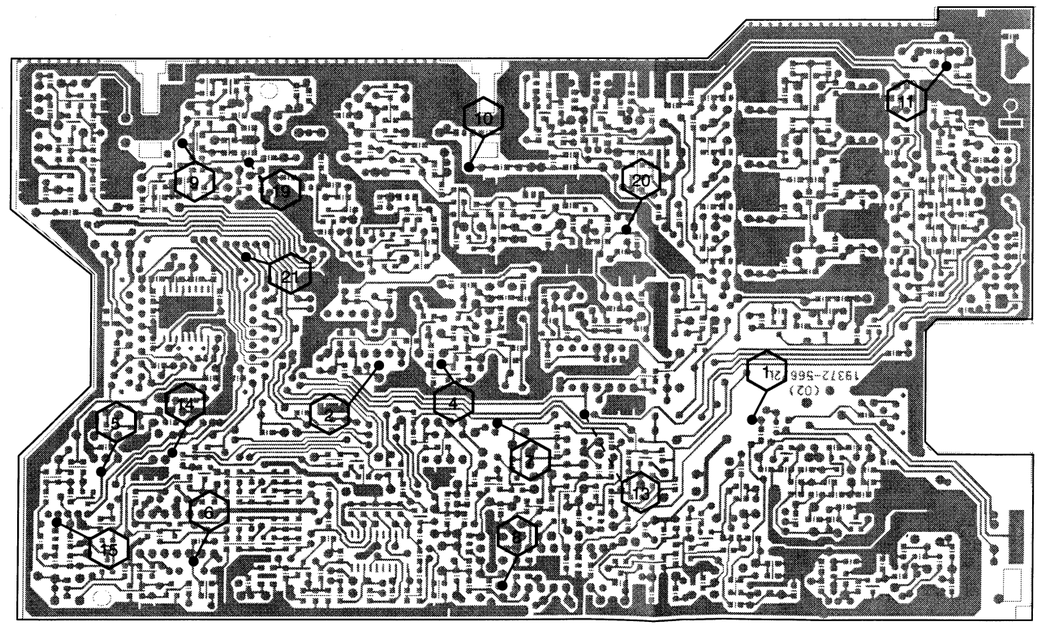
Stereo Crosstalk

Presettings: FM; Aerial switch to EXT; plug-in a 3,5 mm stereo jack plug with 2x 7,5Ω terminating impedance into the speaker socket.
Feeding: Stereo generator to aerial socket;
FM; 95 MHz; 1 mV; right channel modulated;
Measuring: AF Voltmeter by a low-pass filter to testpoint (17).
Alignment: Adjust R 605 (17) to minimum.
Feeding: Stereo generator to aerial socket;
FM; 95 MHz; 1 mV; left channel modulated;
Measuring: AF Voltmeter by a low-pass filter to testpoint (18).
Alignment: If necessary adjust R 605 (17) to the middle value.

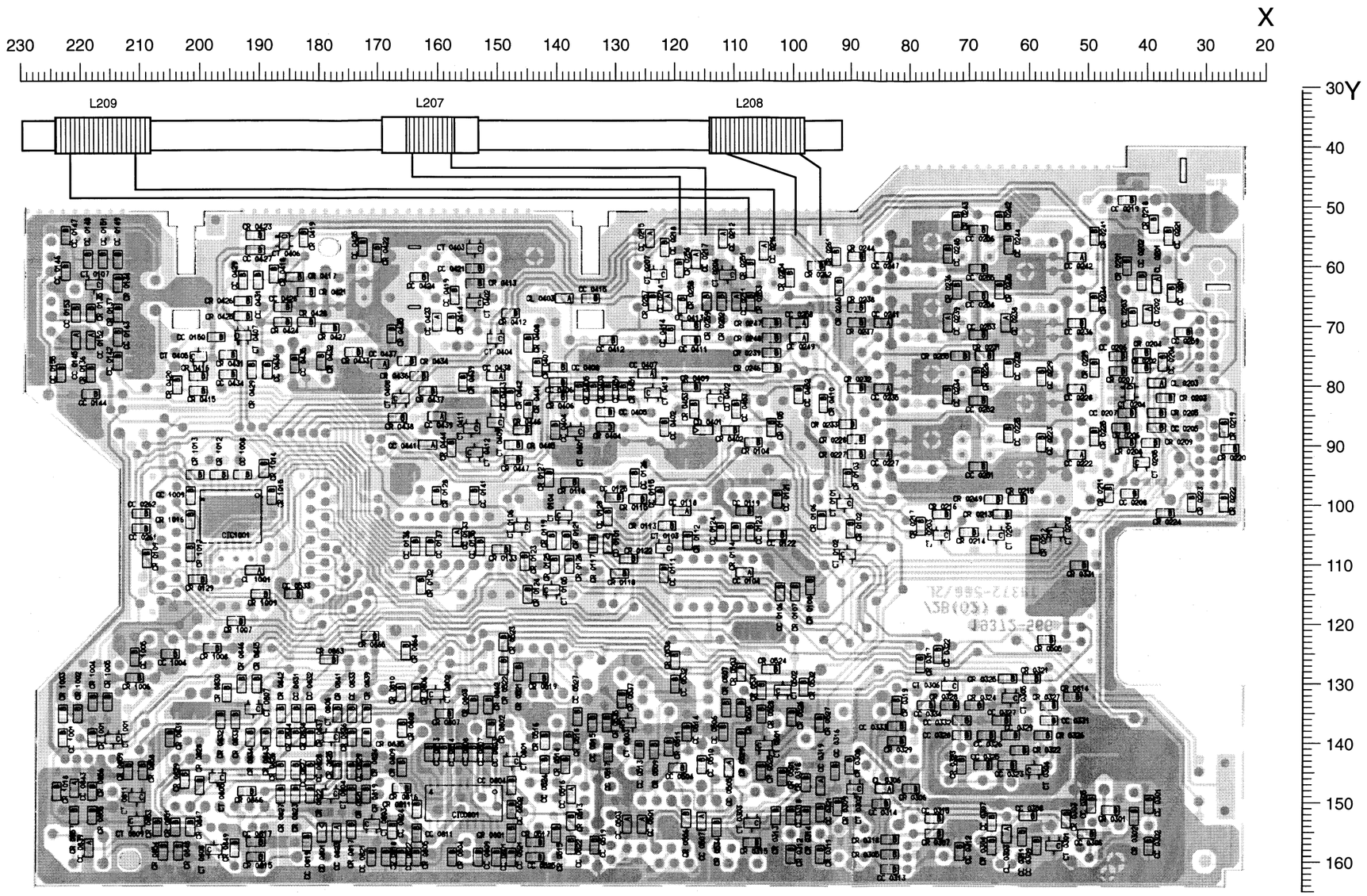








Druckplattenabbildungen HF-Platte / Illustration of RF Board *Satellit 700*



Bauteil	X	Y
CC 0104	109	111
CC 0106	103	115
CC 0111	122	112
CC 0115	123	99
CC 0118	119	101
CC 0119	109	101
CC 0121	103	99
CC 0122	103	105
CC 0123	108	105
CC 0124	113	105
CC 0125	131	99
CC 0126	127	96
CC 0128	132	102
CC 0133	157	106
CC 0135	153	107
CC 0136	164	107
CC 0137	162	107
CC 0141	154	99
CC 0142	214	76
CC 0143	214	72
CC 0144	219	82
CC 0145	221	73
CC 0146	223	61
CC 0147	223	55
CC 0148	220	59
CC 0149	216	59
CC 0150	198	72
CC 0151	218	59

Bauteil	X	Y
CC 0152	219	73
CC 0153	221	68
CC 0155	224	78
CC 0156	214	58
CC 0201	37	65
CC 0202	42	63
CC 0203	43	69
CC 0204	38	76
CC 0205	39	87
CC 0206	46	75
CC 0207	44	85
CC 0208	44	98
CC 0211	110	66
CC 0212	112	56
CC 0214	122	66
CC 0215	125	56
CC 0216	105	58
CC 0217	117	59
CC 0218	122	57
CC 0219	44	49
CC 0221	37	55
CC 0222	53	92
CC 0223	59	90
CC 0225	64	88
CC 0227	85	92
CC 0228	53	81
CC 0229	59	79
CC 0232	64	77

Bauteil	X	Y
CC 0234	74	82
CC 0235	85	81
CC 0236	53	70
CC 0238	65	70
CC 0239	74	70
CC 0241	85	70
CC 0242	53	59
CC 0244	64	57
CC 0245	74	58
CC 0247	85	59
CC 0249	100	72
CC 0251	69	94
CC 0252	69	83
CC 0253	69	72
CC 0254	69	65
CC 0255	69	61
CC 0256	69	54
CC 0258	100	70
CC 0259	35	71
CC 0261	210	104
CC 0262	210	102
CC 0301	40	150
CC 0302	40	157
CC 0305	50	150
CC 0306	51	155
CC 0307	67	153
CC 0308	61	152
CC 0309	59	157

Bauteil	X	Y
CC 0311	62	156
CC 0312	72	158
CC 0313	84	161
CC 0314	85	150
CC 0315	76	153
CC 0316	93	145
CC 0318	101	152
CC 0319	96	147
CC 0321	96	152
CC 0322	76	125
CC 0323	64	144
CC 0325	68	144
CC 0326	68	139
CC 0327	65	136
CC 0328	72	139
CC 0329	64	139
CC 0331	57	136
CC 0332	72	136
CC 0333	83	137
CC 0334	78	134
CC 0402	122	87
CC 0404	141	88
CC 0405	132	85
CC 0406	140	80
CC 0407	125	78
CC 0408	140	77
CC 0411	118	73
CC 0412	132	73

Bauteil	X	Y
CC 0413	118	70
CC 0414	121	72
CC 0415	135	66
CC 0419	158	65
CC 0421	154	61
CC 0423	161	70
CC 0424	164	62
CC 0425	173	57
CC 0427	191	58
CC 0428	187	67
CC 0429	193	63
CC 0431	191	63
CC 0434	196	78
CC 0435	185	77
CC 0436	189	78
CC 0437	170	77
CC 0438	151	79
CC 0439	161	85
CC 0441	162	90
CC 0451	132	81
CC 0452	100	82
CC 0453	110	84
CC 0501	126	154
CC 0503	128	154
CC 0504	120	144
CC 0505	111	144
CC 0506	112	138
CC 0507	116	153

Bauteil	X	Y
CC 0510	116	144
CC 0513	126	141
CC 0514	118	138
CC 0515	134	137
CC 0516	138	149
CC 0517	131	142
CC 0519	134	157
CC 0521	148	159
CC 0522	138	157
CC 0524	142	144
CC 0525	144	159
CC 0527	137	136
CC 0532	120	130
CC 0533	185	115
CC 0801	150	159
CC 0802	148	151
CC 0803	152	142
CC 0804	148	147
CC 0807	154	142
CC 0808	157	142
CC 0809	153	159
CC 0811	164	155
CC 0813	162	142
CC 0814	159	142
CC 0817	191	157
CC 0819	182	157
CC 0821	171	159
CC 0822	166	159

Bauteil	X	Y
CC 0823	177	155
CC 0824	168	155
CC 0827	184	145
CC 0828	182	145
CC 0829	184	145
CC 0831	184	135
CC 0832	182	135
CC 0833	175	135
CC 0839	219	158
CC 0843	221	148
CC 1001	223	139
CC 1004	205	125
CC 1005	211	126
CC 1008	193	95
CC 1009	202	99
CC1001	195	102
CD 0101	107	270
CD 0401	88	0
CD 0402	114	82
CD 0801	155	270
CIC0801	156	150
CL 0201	39	63
CL 0202	41	68
CL 0203	39	80
CL 0303	64	155
CL 0306	85	148
CL 0403	139	66
CL 1001	191	111

Bauteil	X	Y
CR 0102	91	104
CR 0103	91	96
CR 0104	107	90
CR 0105	104	87
CR 0106	96	103
CR 0107	100	115
CR 0108	98	114
CR 0109	209	109
CR 0112	118	106
CR 0113	122	104
CR 0114	110	105
CR 0115	127	99
CR 0116	138	96
CR 0117	134	107
CR 0118	130	112
CR 0119	141	106
CR 0121	139	106
CR 0122	128	109
CR 0123	146	110
CR 0124	145	115
CR 0125	141	110
CR 0126	138	110
CR 0127	142	96
CR 0128	161	99
CR 0129	201	113
CR 0132	163	114
CR 0133	150	108
CR 0134	214	63

Bauteil	X	Y
CR 0135	219	68
CR 0136	219	78
CR 0137	214	68
CR 0201	44	60
CR 0202	42	77
CR 0203	38	82
CR 0204	42	75
CR 0205	39	85
CR 0206	45	87
CR 0207	46	78
CR 0208	44	90
CR 0209	40	90
CR 0211	47	98
CR 0212	60	107
CR 0213	65	102
CR 0214	71	105
CR 0215	63	99
CR 0216	75	102
CR 0217	79	104
CR 0218	40	53
CR 0219	28	87
CR 0220	27	91
CR 0222	28	100
CR 0223	33	100
CR 0224	38	101
CR 0225	50	89
CR 0226	69	79
R 0227	90	92

Bauteil	X	Y
CR 0228	90	89
CR 0229	50	77
CR 0231	68	75
CR 0232	90	81
CR 0233	91	87
CR 0234	50	66
CR 0235	66	64
CR 0236	73	64
CR 0237	90	70
CR 0238	90	67
CR 0239	104	75
CR 0241	50	55
CR 0242	66	53
CR 0243	73	53
CR 0244	90	59
CR 0245	93	64
CR 0246	104	77
CR 0247	104	70
CR 0248	104	72
CR 0249	67	99
CR 0251	108	61
CR 0252	113	66
CR 0253	108	66
CR 0254	101	62
CR 0255	72	75
CR 0256	120	61
CR 0257	124	66
CR 0258	119	67

Bauteil	X	Y
CR 0259	115	66
CR 0261	93	59
CR 0262	97	60
CR 0301	47	151
CR 0302	43	152
CR 0303	54	153
CR 0304	67	157
CR 0305	84	159
CR 0306	80	148
CR 0307	76	155
CR 0308	91	144
CR 0309	93	151
CR 0311	96	159
CR 0312	101	159
CR 0313	103	152
CR 0314	98	152
CR 0315	107	157
CR 0316	98	147
CR 0317	79	127
CR 0318	84	156
CR 0319	83	134
CR 0321	60	129
CR 0322	62	141
CR 0323	72	144
CR 0324	70	134
CR 0325	64	129
CR 0326	58	139
CR 0327	57	134
CR 0328	74	134
CR 0329	83	140
CR 0331	52	110
CR 0402	111	88
CR 0403	134	81
CR 0404	132	87
CR 0405	137	81
CR 0406	140	82
CR 0407	144	77
CR 0408	145	73
CR 0409	118	80
CR 0410	95	83
CR 0412	148	68
CR 0413	154	63
CR 0414	158	70
CR 0415	201	81
CR 0416	201	79
CR 0417	185	62
CR 0418	188	62
CR 0419	193	56
CR 0420	204	60
CR 0421	183	65
CR 0422	171	58
CR 0423	191	55
CR 0424	187	70
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CR 0426	193	66
CR 0427	179	71
CR 0428	183	70
CR 0429	192	78
CR 0431	196	75
CR 0432	180	76
CR 0433	175	75
CR 0434	166	76
CR 0435	168	72
CR 0436	164	79
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CR 0438	167	86
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CR 0441	145	84
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CR 0443	151	82
CR 0444	158	91
CR 0445	148	90
CR 0446	146	88
CR 0447	148	93
CR 0451	129	81
CR 0453	117	84
CR 0501	102	146
CR 0503	109	128
CR 0504	109	134
CR 0505	58	123
CR 0506	118	153
CR 0507	112	134
CR 0509	124	141
CR 0511	121	141
CR 0513	138	153
CR 0514	139	144
CR 0515	140	155
CR 0516	142	140
CR 0517	144	157
CR 0518	138	140
CR 0519	143	129
CR 0521	147	128
CR 0522	149	127
CR 0523	149	123
CR 0524	104	128
CR 0525	106	145
CR 0526	101	136
CR 0527	96	137
CR 0528	106	135
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CR 0531	106	131
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CR 0534	113	154
CR 0535	132	137
CR 0537	129	133
CR 0538	120	126
CR 0801	148	155
CR 0802	151	138
CR 0803	154	134
CR 0804	158	159
CR 0805	164	159
CR 0806	164	132
CR 0807	159	135
CR 0808	166	138
CR 0809	166	144
CR 0810	166	132
CR 0811	164	151
CR 0814	53	132
CR 0815	191	159
CR 0816	166	148
CR 0817	175	155
CR 0818	169	159
CR 0819	172	149
CR 0821	175	149

Bauteil	X	Y
CR 0822	182	149
CR 0823	184	149
CR 0824	172	145
CR 0825	177	145
CR 0826	187	145
CR 0827	187	149
CR 0828	200	147
CR 0829	203	146
CR 0830	196	132
CR 0831	205	139
CR 0832	197	136
CR 0833	194	136
CR 0834	192	139
CR 0835	172	139
CR 0836	175	139
CR 0837	182	139
CR 0838	184	139
CR 0839	172	135
CR 0841	177	135
CR 0842	187	135
CR 0843	189	139
CR 0844	187	139
CR 0845	191	130
CR 0846	193	130
CR 0847	202	154
CR 0848	204	158
CR 0849	194	158
CR 0851	204	154
CR 0853	207	154
CR 0854	206	158
CR 0855	218	152
CR 0856	218	148
CR 0857	221	152
CR 0858	210	145
CR 0859	212	145
CR 0862	152	134
CR 0863	179	126
CR 0864	166	125
CR 0865	172	122
CR 0866	192	148
CR 1001	218	139
CR 1002	221	135
CR 1003	223	135
CR 1004	218	133
CR 1005	216	133
CR 1006	211	129
CR 1007	194	120
CR 1008	198	124
CR 1009	190	115
CR 1012	197	95
CR 1013	201	95
CR 1014	190	94
CR 1015	188	99
CR 1016	202	103
CR 1017	202	108
CR 1018	224	148
CT 0101	92	100
CT 0102	91	108
CT 0103	122	107
CT 0104	139	102
CT 0105	141	114
CT 0106	146	104
CT 0107	218	63
CT 0201	66	105
CT 0202	56	105
CT 0203	75	105
CT 0204	81	0
CT 0205	42	93
CT 0206	112	62
CT 0207	123	62
CT 0301	56	157
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CT 0303	107	153
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CT 0401	137	88
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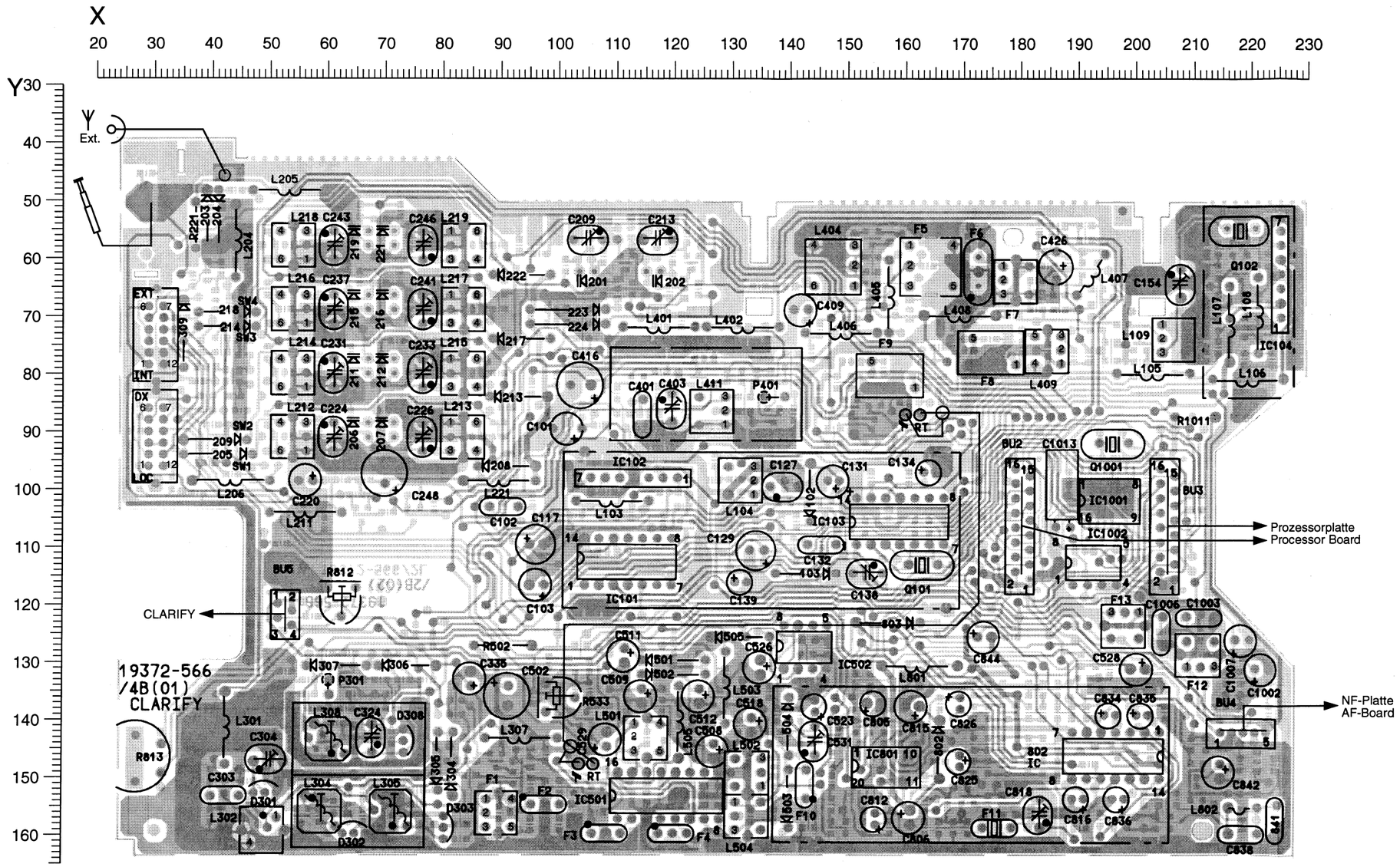
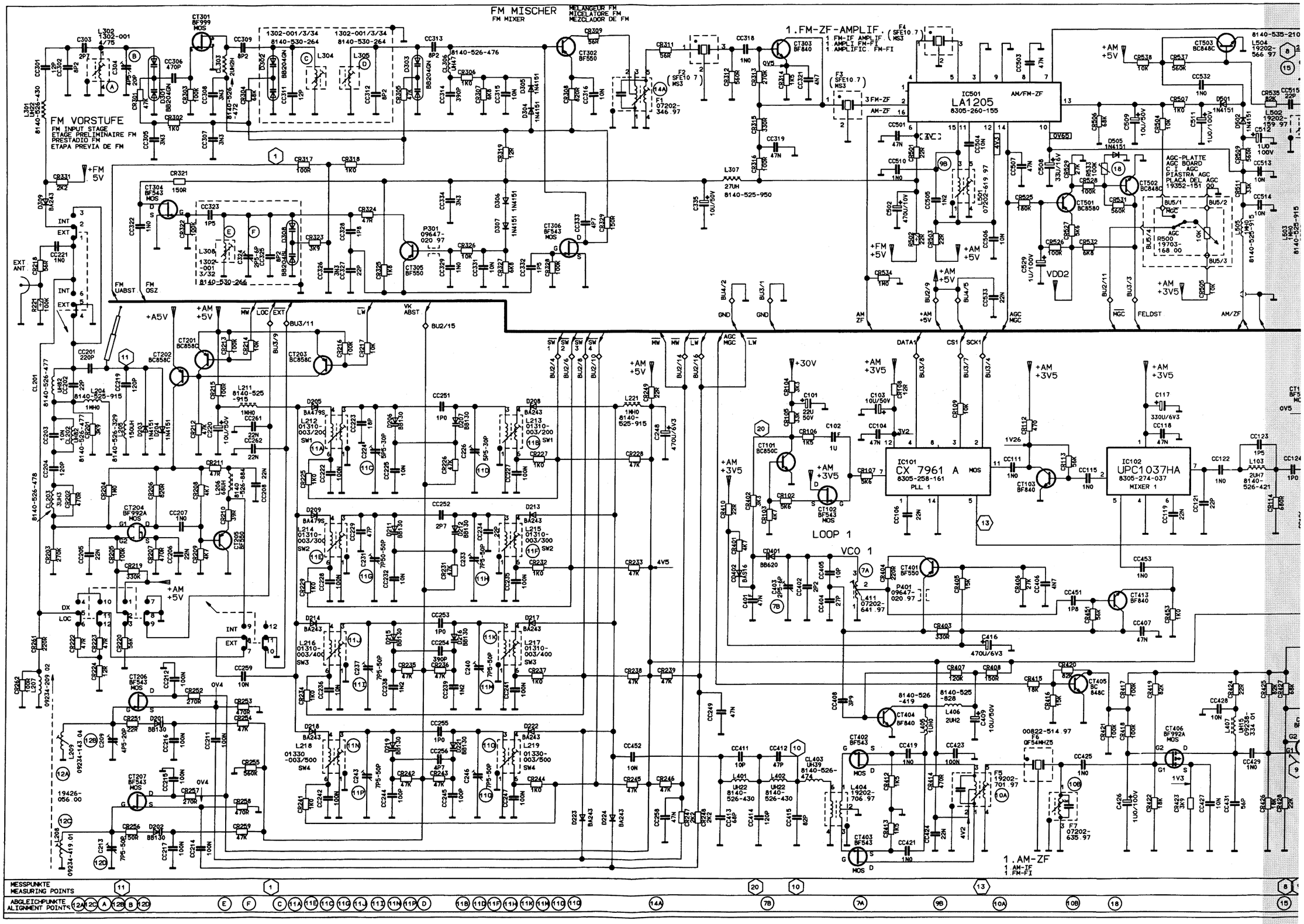
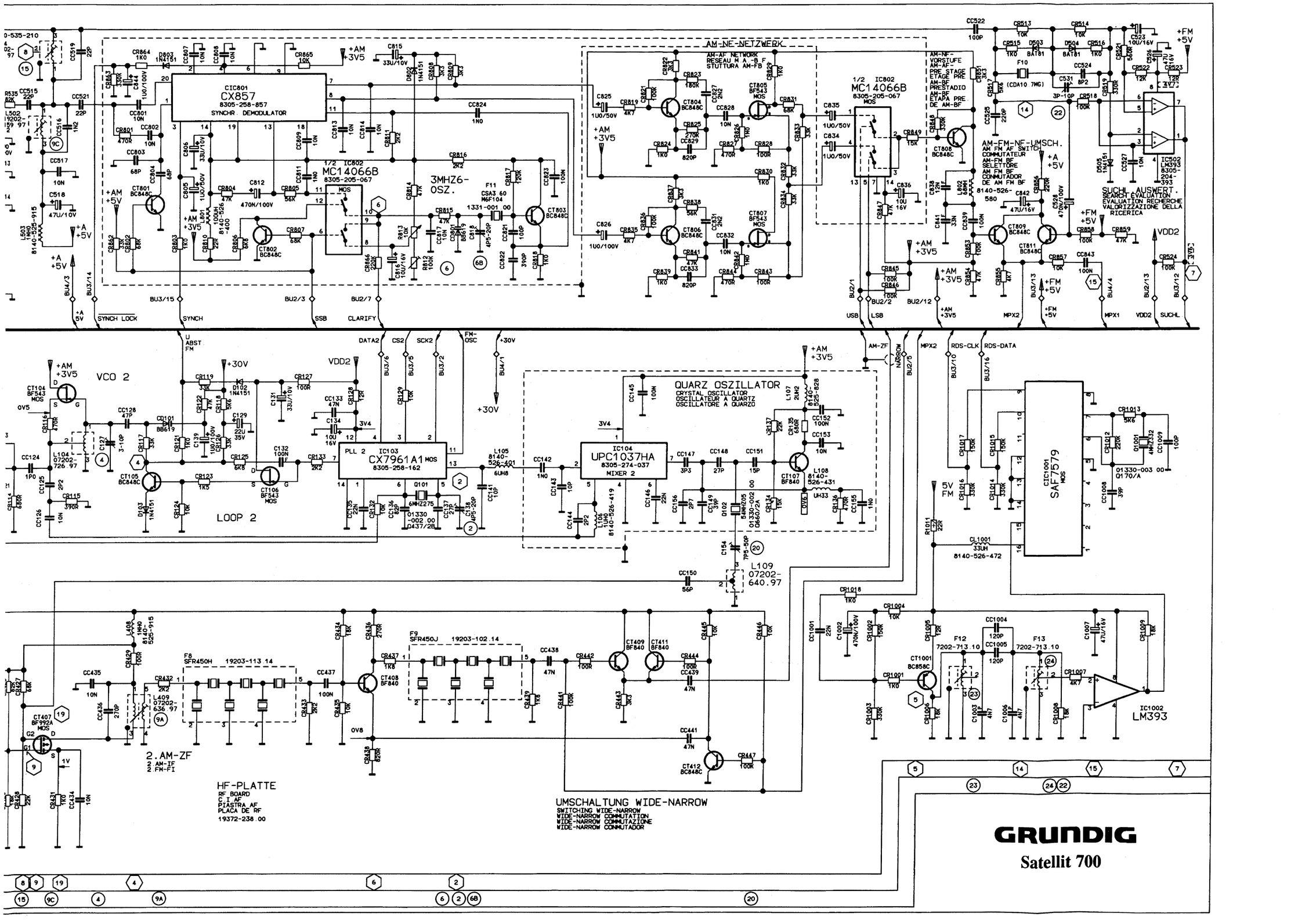
Satellit 700 Druckplattenabbildungen HF-Platte / Illustration of RF Board



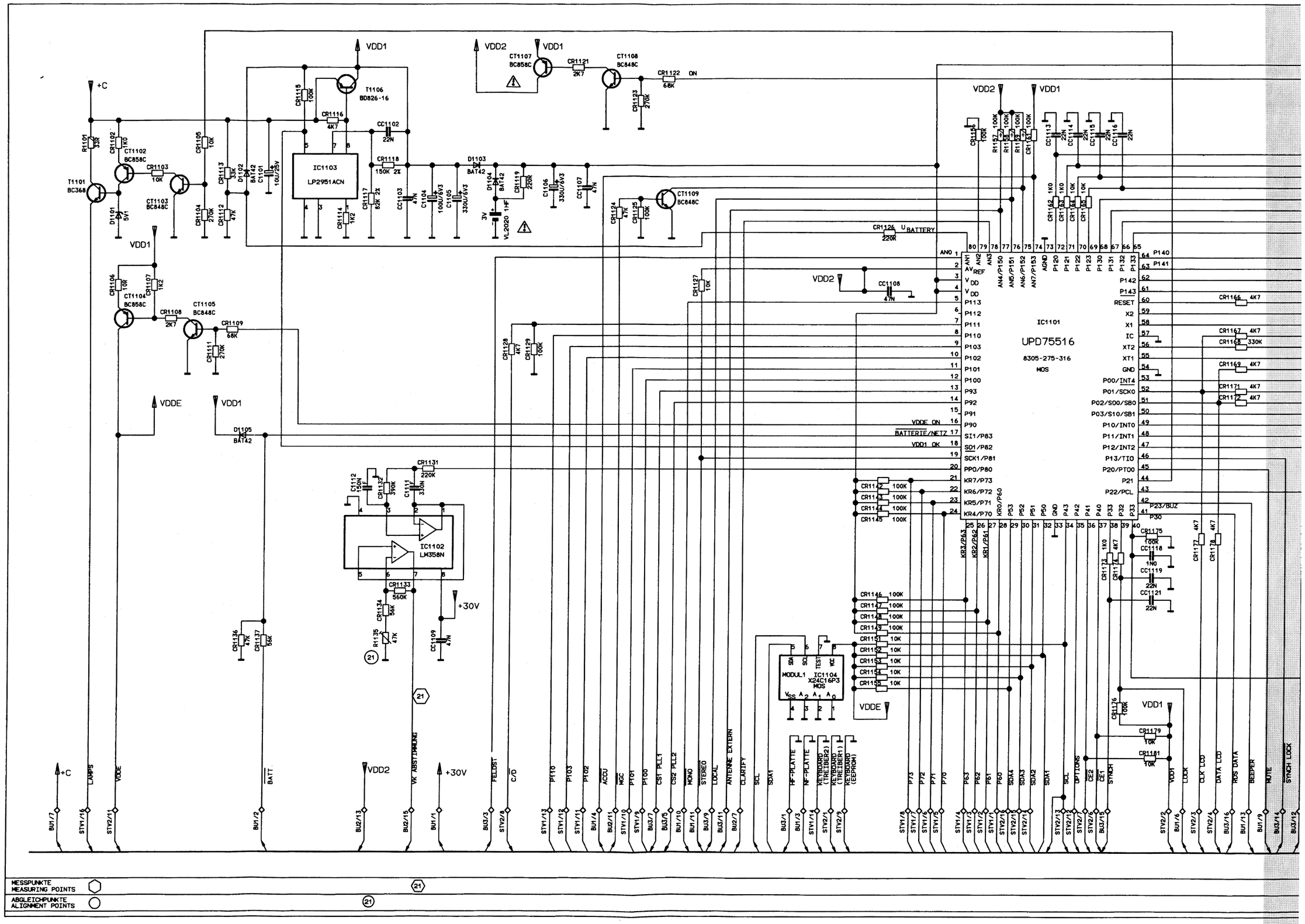
Schaltbild HF-Platte / Circuit Diagram of RF Board Satellit 700



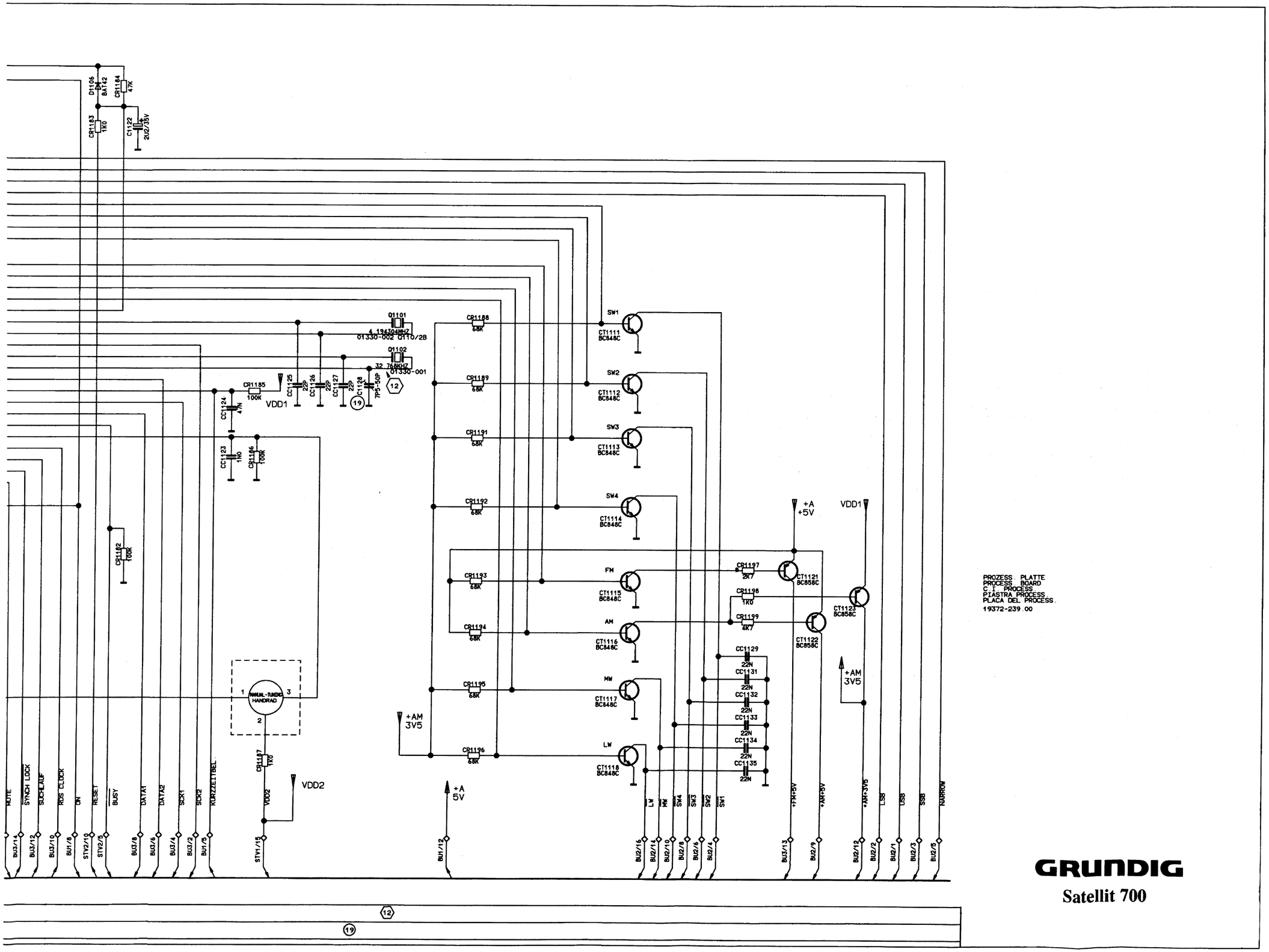
Satellit 700 Schaltbild HF-Platte / Circuit Diagram of RF Board

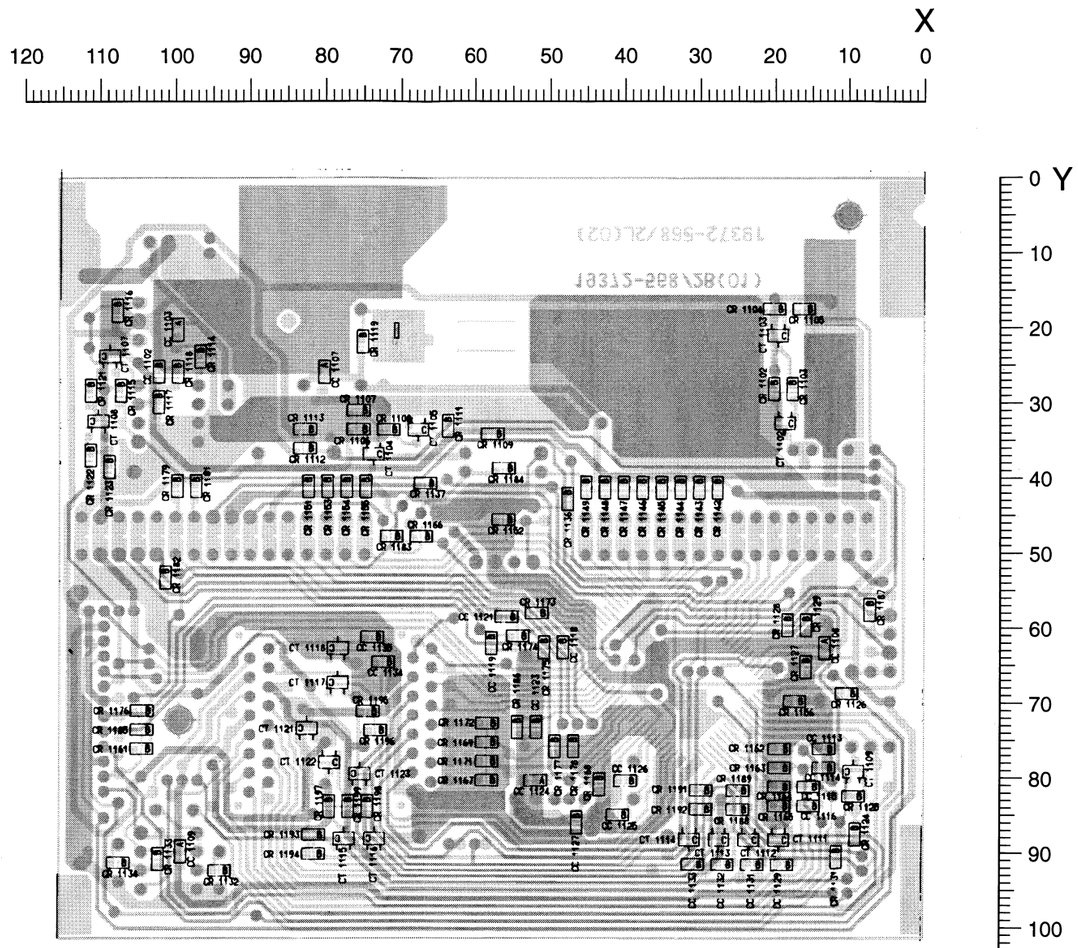


Schaltbild Prozessorplatte / Circuit Diagram of Processor Board Satellit 700

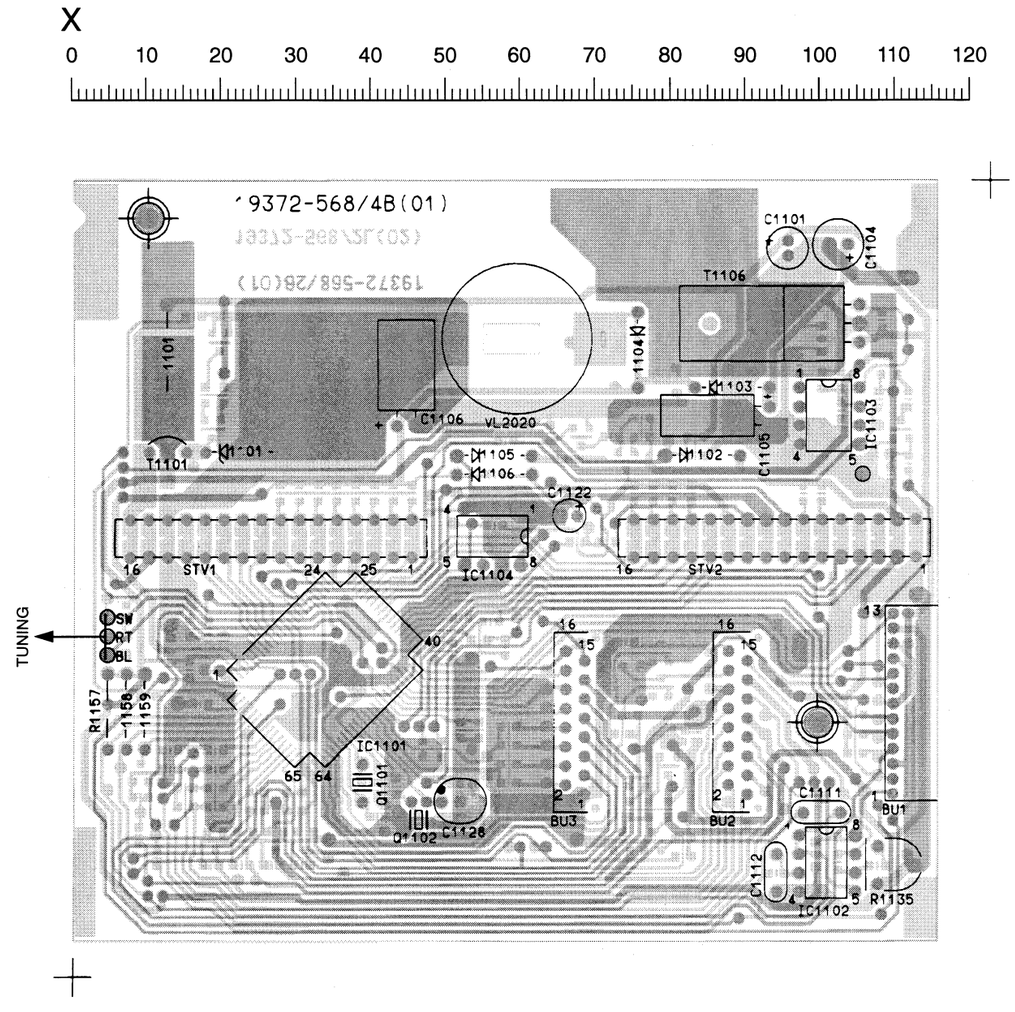


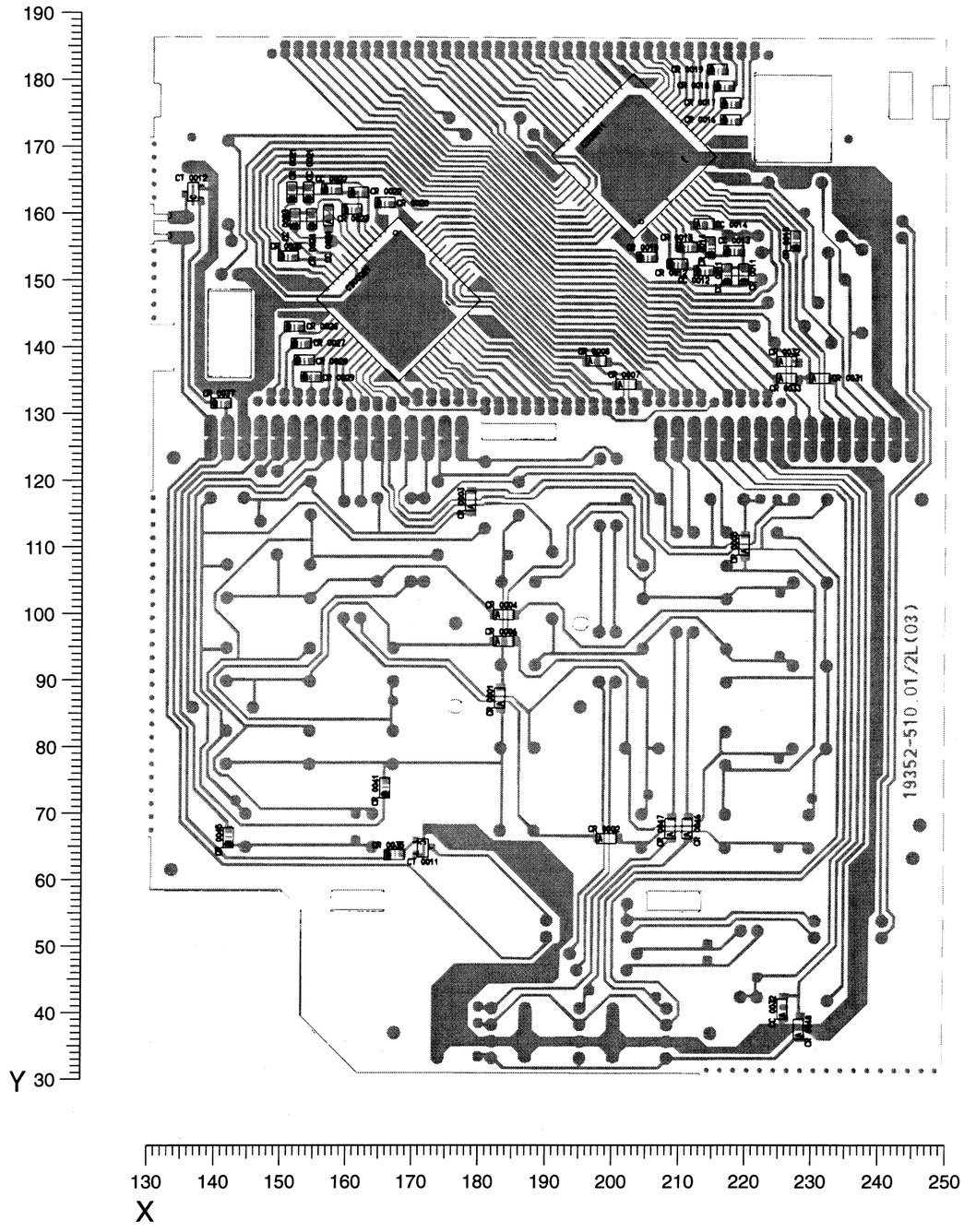
Satellit 700 Schaltbild Prozessorplatte / Circuit Diagram of Processor Board



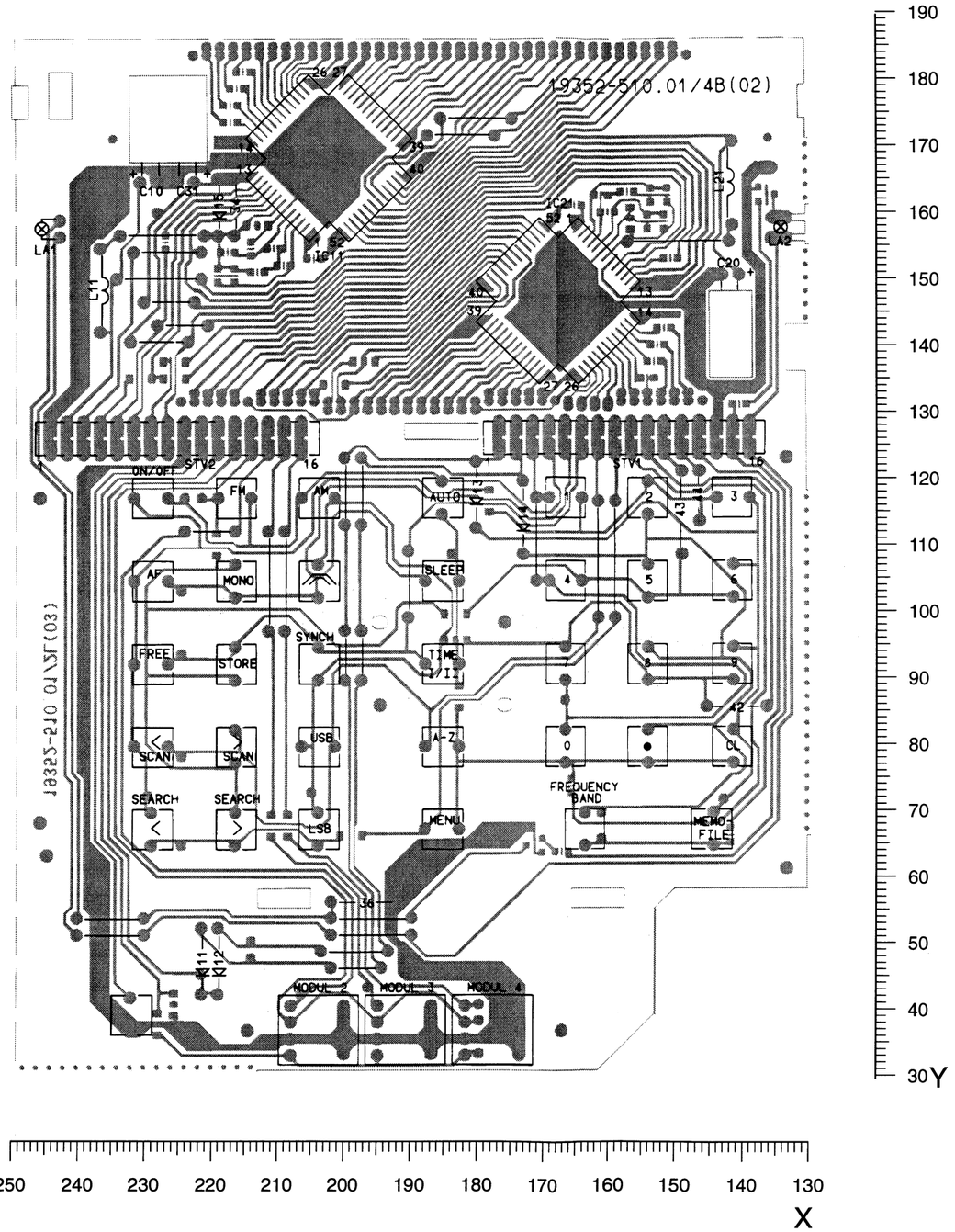


Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y
CC 1102	102	27	CC 1135	74	61	CR 1125	9	82	CR 1154	77	42	CR 1182	101	54	CT 1108	110	33
CC 1103	100	21	CR 1102	20	29	CR 1126	10	69	CR 1155	75	42	CR 1183	71	48	CT 1109	9	79
CC 1107	80	27	CR 1103	18	29	CR 1127	16	65	CR 1156	17	70	CR 1184	56	39	CT 1111	19	88
CC 1108	13	63	CR 1104	20	18	CR 1128	18	60	CR 1161	104	76	CR 1185	104	74	CT 1112	23	88
CC 1109	99	90	CR 1105	16	18	CR 1129	16	60	CR 1162	19	76	CR 1186	54	73	CT 1113	27	88
CC 1113	13	76	CR 1106	76	34	CR 1131	11	90	CR 1163	19	78	CR 1187	7	58	CT 1114	31	88
CC 1114	13	78	CR 1107	76	32	CR 1132	94	92	CR 1164	19	81	CR 1188	25	84	CT 1115	77	88
CC 1115	15	81	CR 1108	72	34	CR 1133	102	91	CR 1165	19	83	CR 1189	25	81	CT 1116	73	88
CC 1116	15	83	CR 1109	58	35	CR 1134	107	91	CR 1166	67	48	CR 1191	30	81	CT 1117	78	67
CC 1118	48	63	CR 1111	64	34	CR 1136	48	43	CR 1167	58	80	CR 1192	30	84	CT 1118	78	63
CC 1119	58	62	CR 1112	83	37	CR 1137	67	41	CR 1168	43	81	CR 1193	81	87	CT 1121	82	73
CC 1121	56	59	CR 1113	83	34	CR 1142	28	42	CR 1169	58	75	CR 1194	81	90	CT 1122	79	78
CC 1123	52	73	CR 1114	97	25	CR 1143	30	42	CR 1171	58	78	CR 1195	74	71	CT 1123	75	79
CC 1124	52	80	CR 1115	107	29	CR 1144	33	42	CR 1172	58	73	CR 1196	73	74			
CC 1125	41	85	CR 1116	108	19	CR 1145	35	42	CR 1173	52	58	CR 1197	79	84			
CC 1126	40	80	CR 1117	102	31	CR 1146	38	42	CR 1174	54	61	CR 1198	74	84			
CC 1127	46	86	CR 1118	100	27	CR 1147	40	42	CR 1175	51	63	CR 1199	77	84			
CC 1129	19	91	CR 1119	75	23	CR 1148	43	42	CR 1176	104	71	CT 1102	19	33			
CC 1131	23	91	CR 1121	111	29	CR 1149	45	42	CR 1177	49	76	CT 1103	20	22			
CC 1132	27	91	CR 1122	111	38	CR 1151	82	42	CR 1178	47	76	CT 1104	74	37			
CC 1133	31	91	CR 1123	109	39	CR 1152	56	46	CR 1179	100	42	CT 1105	68	34			
CC 1134	72	65	CR 1124	9	87	CR 1153	80	42	CR 1181	97	42	CT 1107	109	25			

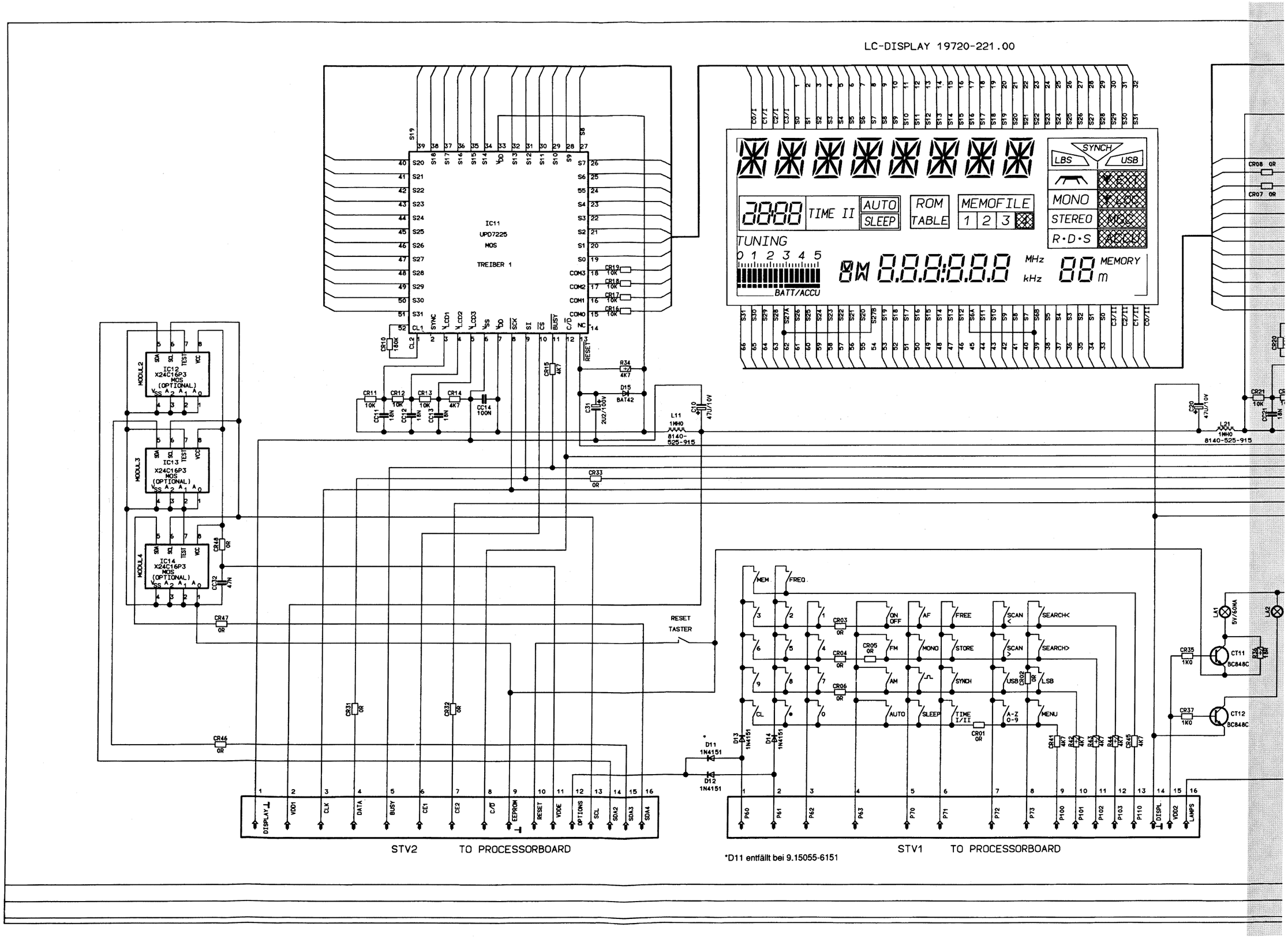


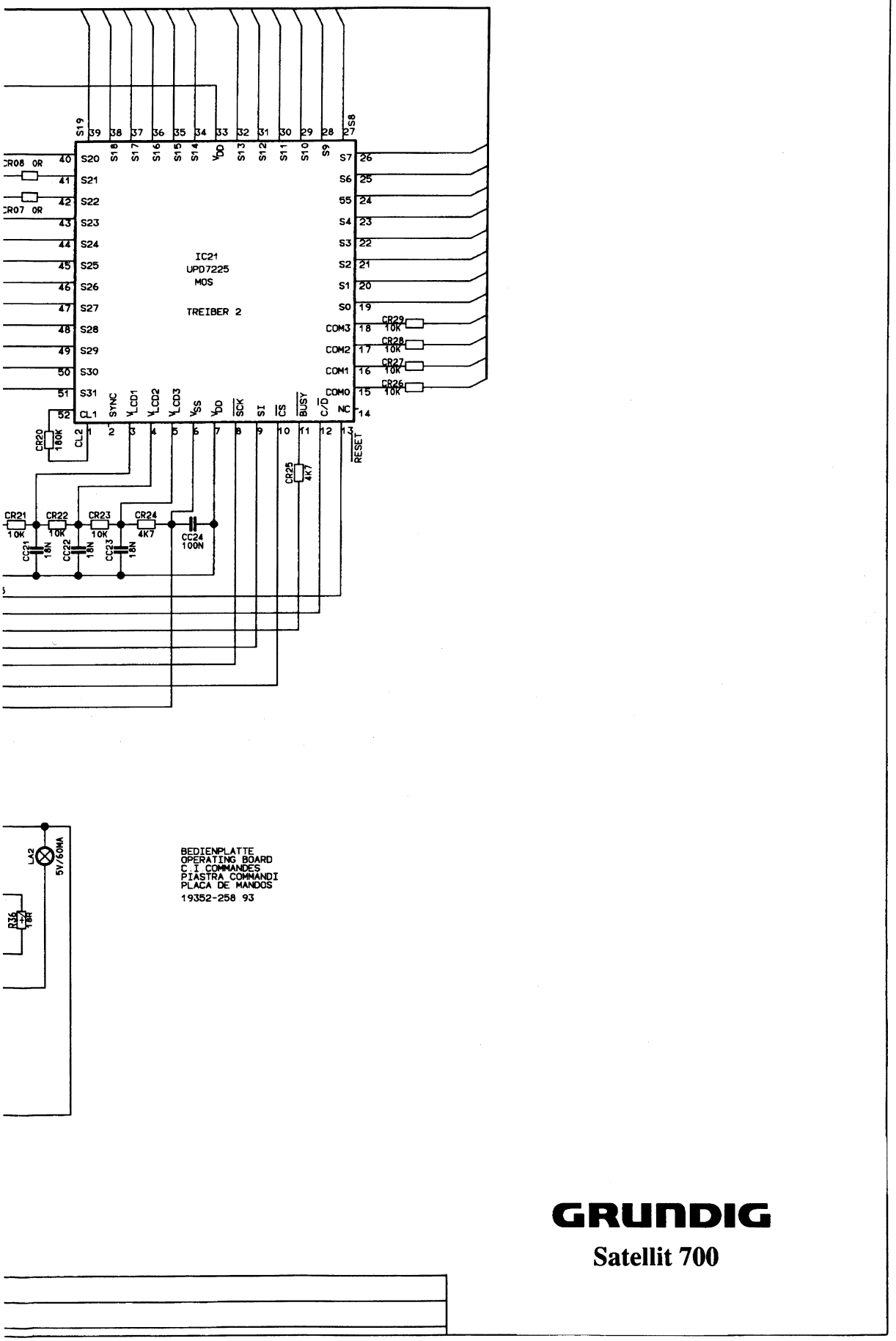


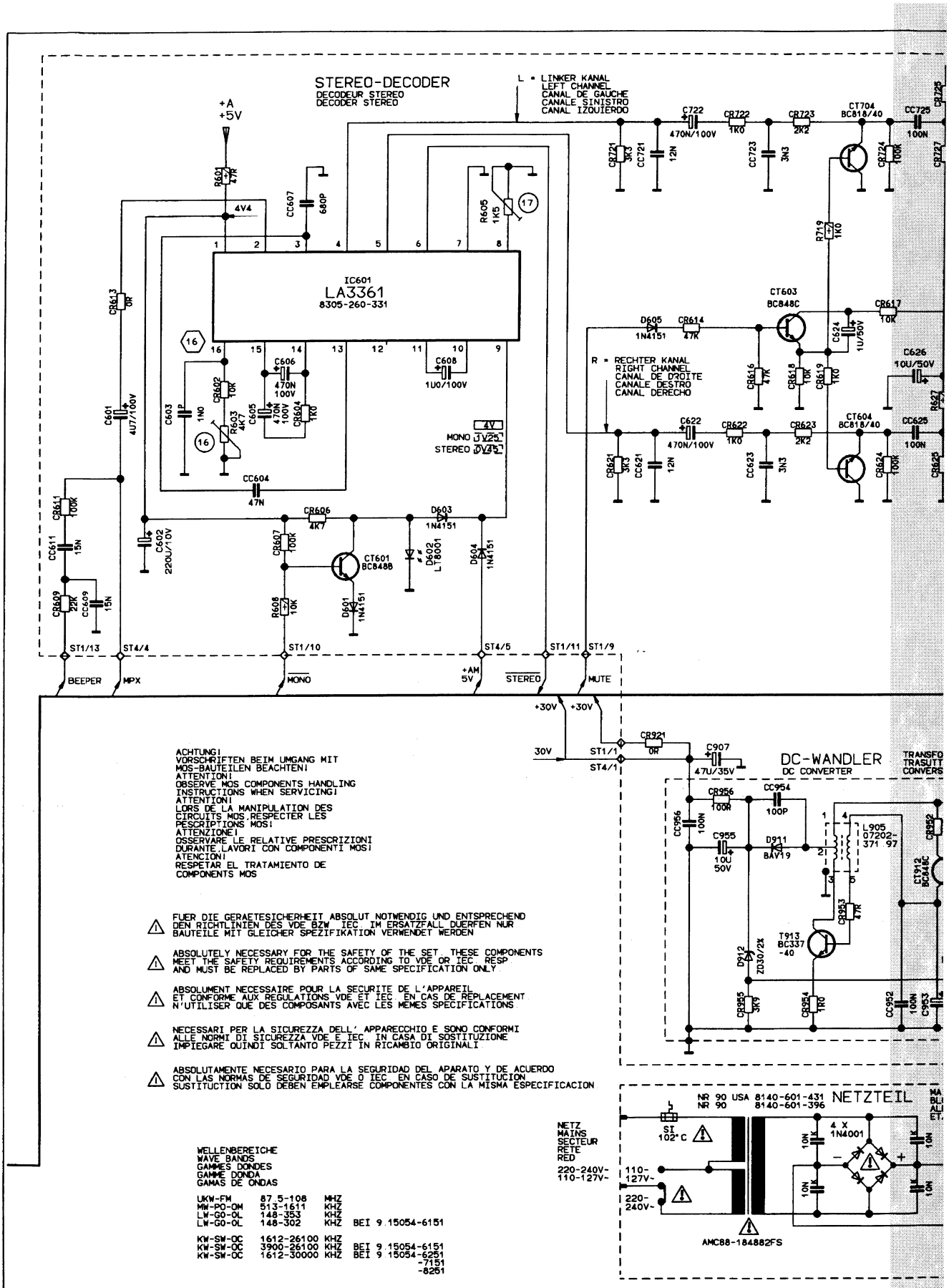
Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y
CC 0011	217	151	CR 0007	202	134	CR 0025	151	153
CC 0012	213	151	CR 0008	197	138	CR 0026	152	143
CC 0013	218	154	CR 0010	205	153	CR 0027	153	140
CC 0014	213	158	CR 0011	219	151	CR 0028	154	138
CC 0021	154	163	CR 0012	209	152	CR 0029	155	135
CC 0022	158	163	CR 0013	211	155	CR 0031	231	135
CC 0023	152	159	CR 0014	214	155	CR 0032	226	138
CC 0024	157	159	CR 0015	227	156	CR 0033	226	135
CC 0032	226	41	CR 0016	217	174	CR 0035	168	64
CIC 0011	203	168	CR 0017	217	176	CR 0037	141	131
CIC 0021	168	147	CR 0018	216	179	CR 0041	166	74
CR 0001	183	87	CR 0019	215	181	CR 0045	143	66
CR 0002	199	66	CR 0020	166	161	CR 0046	211	68
CR 0003	179	117	CR 0021	152	163	CR 0047	209	68
CR 0004	184	100	CR 0022	162	163	CR 0048	228	38
CR 0005	219	110	CR 0023	161	160	CT 0011	172	65
CR 0006	184	96	CR 0024	155	159	CT 0012	137	163



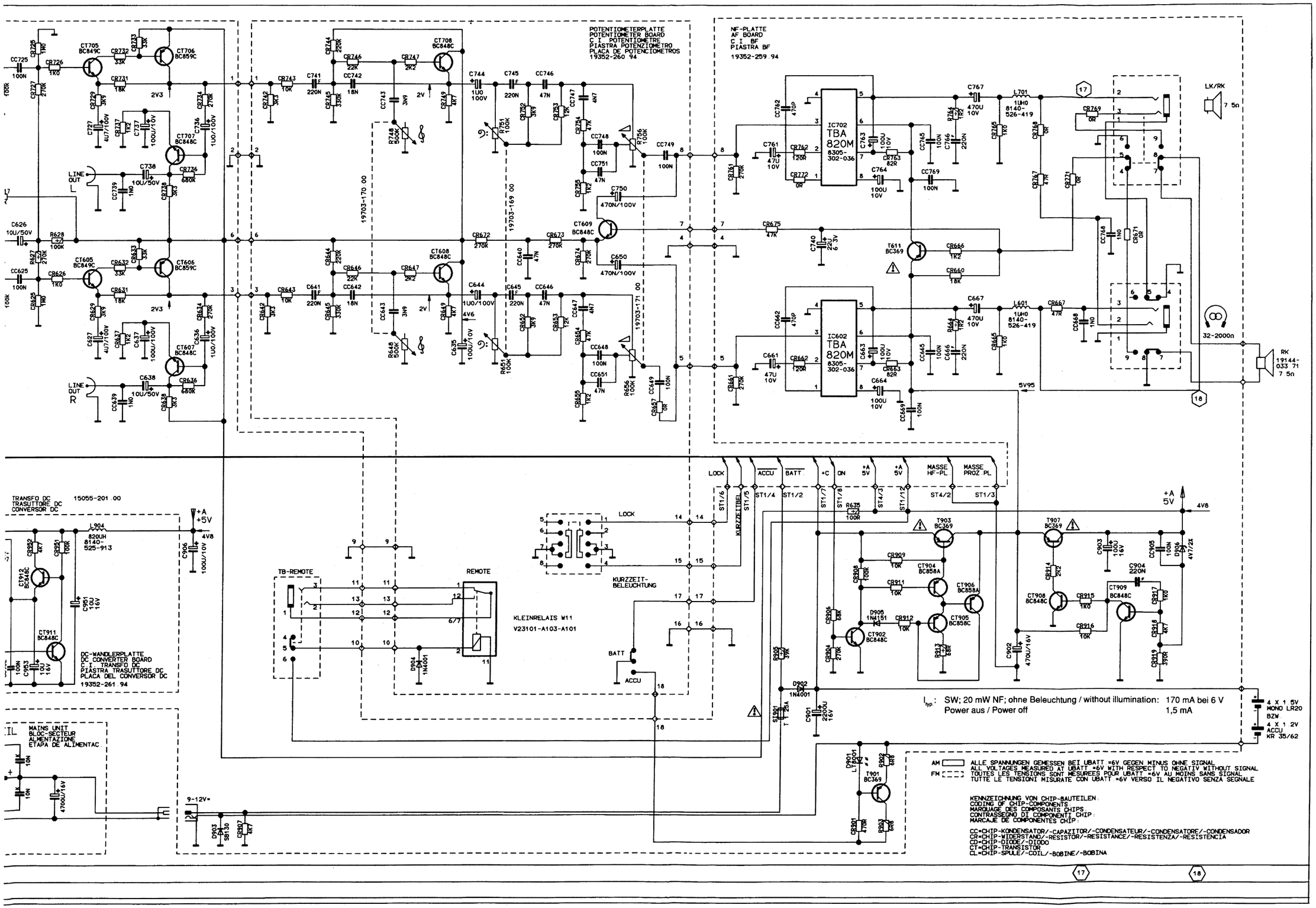
Schaltbild Bedienplatte / Circuit Diagram of Operating Board Satellit 700

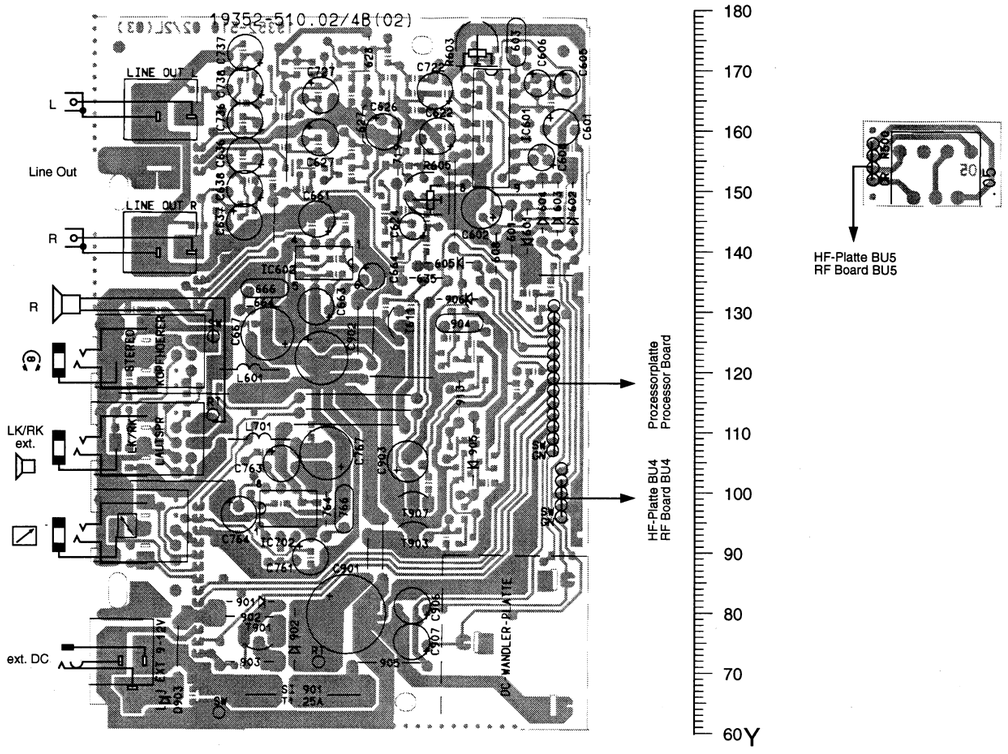


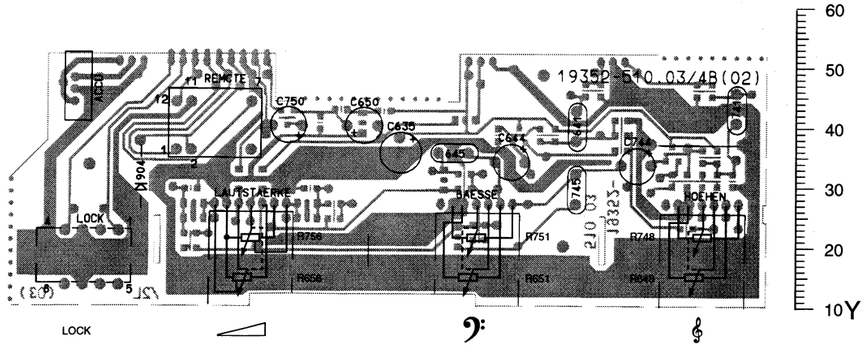

IC21
UPD7225
MOS
TREIBER 2
BEDIENPLATTE
OPERATING BOARD
C.I COMMANDES
PIASTRA COMMANDI
PLACA DE MANDOS
19352-258 93
GRUNDIG
Satellit 700


STEREO-DECODER
DECODEUR STEREO
DECODER STEREO
L = LINKER KANAL
LEFT CHANNEL
CANAL DE GAUCHE
CANALE SINISTRO
CANAL IZQUIERDO
R = RECHTER KANAL
RIGHT CHANNEL
CANAL DE DROITE
CANALE DESTRO
CANAL DERECHO
IC601
LA3361
8305-260-331
MONO
STEREO
ST1/13
ST4/4
ST1/10
ST4/5
ST1/11
ST1/9
BEEPER
MPX
MONO
+AM 5V
STEREO
MUTE
ACHTUNG!
VORSCHRIFTEN BEIM UMGANG MIT MOS-BAUTEILEN BEACHTEN!
ATTENTION!
OBSERVE MOS COMPONENTS HANDLING INSTRUCTIONS WHEN SERVICING!
ATTENTION!
LORS DE LA MANIPULATION DES CIRCUITS MOS, RESPECTER LES PRESCRIPTIONS MOS!
ATTENZIONE!
OSSERVARE LE RELATIVE PRESCRIZIONI DURANTE LAVORI CON COMPONENTI MOS!
ATENCION!
RESPETAR EL TRATAMIENTO DE COMPONENTS MOS
FUER DIE GERAETESICHERHEIT ABSOLUT NOTWENDIG UND ENTSPRECHEND DEN RICHTLINIEN DES VDE BZW. IEC IM ERSATZFALL DUERFEN NUR BAUTEILE MIT GLEICHER SPEZIFIKATION VERWENDET WERDEN
ABSOLUTELY NECESSARY FOR THE SAFETY OF THE SET. THESE COMPONENTS MEET THE SAFETY REQUIREMENTS ACCORDING TO VDE OR IEC RESP. AND MUST BE REPLACED BY PARTS OF SAME SPECIFICATION ONLY
ABSOLUMENT NECESSAIRE POUR LA SECURITE DE L'APPAREIL ET CONFORME AUX REGULATIONS VDE ET IEC. EN CAS DE REPLACEMENT N'UTILISER QUE DES COMPOSANTS AVEC LES MEMES SPECIFICATIONS
NECESSARI PER LA SICUREZZA DELL' APPARECCHIO E SONO CONFORMI ALLE NORMI DI SICUREZZA VDE E IEC. IN CASA DI SOSTITUZIONE IMPIEGARE QUINDI SOLTANTO PEZZI IN RICAMBIO ORIGINALI
ABSOLUTAMENTE NECESARIO PARA LA SEGURIDAD DEL APARATO Y DE ACUERDO CON LAS NORMAS DE SEGURIDAD VDE O IEC. EN CASO DE SUSTITUCION SUSTITUCTION SOLO DEBEN EMPLEARSE COMPONENTES CON LA MISMA ESPECIFICACION
DC-WANDLER
DC CONVERTER
NETZTEIL
NR 90 USA 8140-601-431
NR 90 8140-601-396
NETZ MAINS SECTEUR RETE RED
220-240V~
110-127V~
AMC88-184882FS
WELLENBEREICHE
WAVE BANDS
GAMMES D'ONDES
GAMME D'ONDA
GAMAS DE ONDAS
UKW-FM 87,5-108 MHZ
MW-PO-OM 513-1611 KHZ
LW-GO-OL 148-353 KHZ
LW-GO-OL 148-302 KHZ BEI 9.15054-6151
KW-SW-OC 1612-26100 KHZ
KW-SW-OC 3900-26100 KHZ BEI 9.15054-6151
KW-SW-OC 1612-30000 KHZ BEI 9.15054-6251
-7151
-8251
MESSPUNKTE
MEASURING POINTS
ABGLEICHPUNKTE
ALIGNMENT POINTS

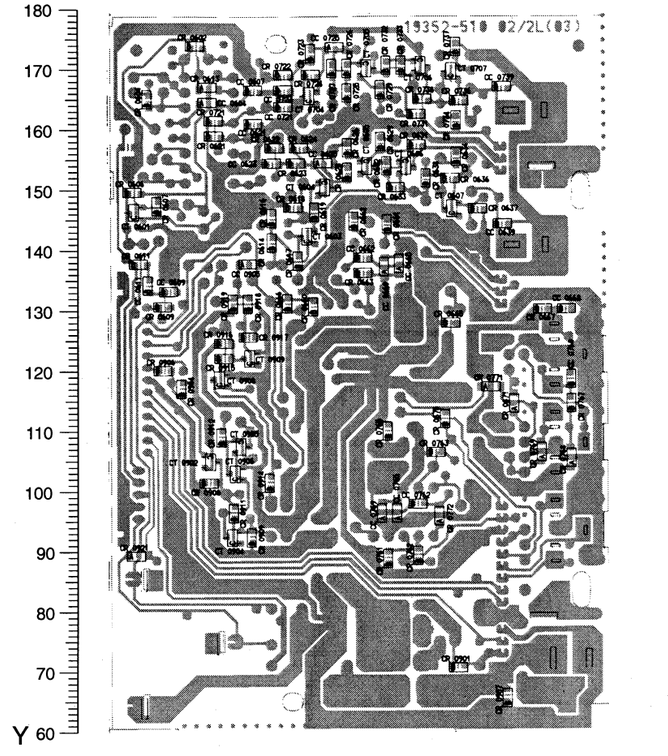
Satellit 700 Schaltbild NF- und Potiplatte / Circuit Diagram of AF and Potentiometer Board

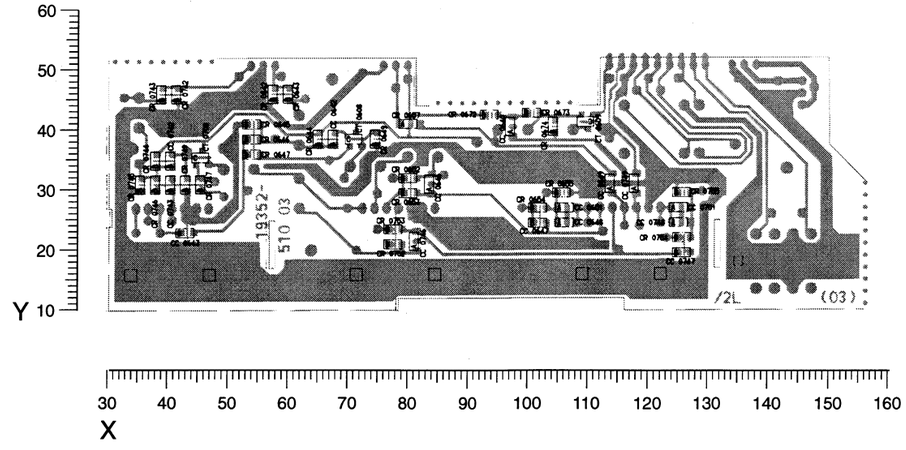




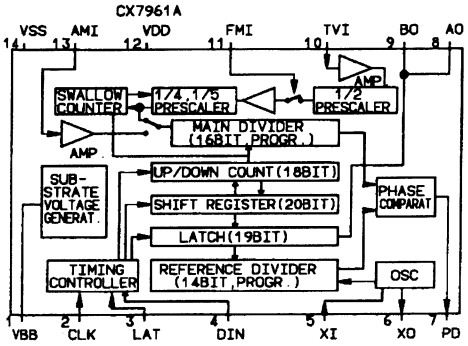


Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y	Bauteil	X	Y
CC 0604	47	172	CC 0665	78	145	CC 0769	75	104	CR 0621	48	166	CR 0645	54	41	CR 0672	94	43	CR 0737	88	181	CR 0767	106	122	CR 0918	53	139	CT 0704	63	173
CC 0607	54	174	CC 0668	106	138	CC 0905	53	145	CR 0622	58	164	CR 0646	54	39	CR 0673	101	43	CR 0738	82	172	CR 0768	106	113	CR 0919	51	139	CT 0705	73	177
CC 0609	40	141	CC 0669	76	145	CC 0952	13	176	CR 0623	61	162	CR 0647	54	36	CR 0674	104	41	CR 0742	42	46	CR 0769	101	114	CR 0921	35	97	CT 0706	82	178
CC 0611	37	142	CC 0721	59	171	CC 0954	23	172	CR 0624	62	164	CR 0649	75	39	CR 0675	87	119	CR 0743	39	46	CR 0771	93	125	CR 0951	20	180	CT 0707	87	177
CC 0621	54	168	CC 0723	59	174	CC 0956	27	164	CR 0625	70	160	CR 0652	80	32	CR 0721	48	169	CR 0744	38	35	CR 0772	85	104	CR 0952	18	180	CT 0708	46	36
CC 0623	57	162	CC 0725	68	181	CC 0602	45	181	CR 0626	70	164	CR 0653	80	30	CR 0722	59	176	CR 0745	38	31	CR 0901	88	80	CR 0953	17	165	CT 0902	47	113
CC 0625	66	162	CC 0739	95	174	CR 0604	37	172	CR 0629	75	165	CR 0654	102	27	CR 0723	64	180	CR 0746	38	31	CR 0904	42	125	CR 0954	17	162	CT 0904	50	100
CC 0639	95	152	CC 0742	41	35	CR 0606	34	157	CR 0631	81	165	CR 0655	106	30	CR 0724	64	176	CR 0747	46	31	CR 0906	39	128	CR 0955	27	180	CT 0905	52	115
CC 0640	97	41	CC 0743	41	31	CR 0607	38	155	CR 0632	76	161	CR 0657	80	41	CR 0725	70	173	CR 0749	43	31	CR 0907	96	74	CR 0956	26	168	CT 0906	51	111
CC 0642	68	39	CC 0746	81	22	CR 0609	39	138	CR 0633	78	158	CR 0660	64	138	CR 0726	70	177	CR 0752	78	21	CR 0908	47	109	CT 0601	34	154	CT 0908	48	126
CC 0643	43	23	CC 0747	126	20	CR 0611	35	145	CR 0634	88	163	CR 0661	76	152	CR 0727	67	177	CR 0753	78	24	CR 0909	54	100	CT 0603	63	150	CT 0909	53	130
CC 0646	84	31	CC 0748	125	25	CR 0613	47	174	CR 0636	87	159	CR 0662	71	152	CR 0729	75	174	CR 0754	126	22	CR 0911	51	104	CT 0604	66	158	CT 0911	24	182
CC 0647	102	25	CC 0749	118	31	CR 0614	57	149	CR 0637	91	154	CR 0663	72	144	CR 0731	81	170	CR 0755	126	30	CR 0912	49	117	CT 0605	73	161	CT 0912	14	182
CC 0648	106	25	CC 0751	125	27	CR 0616	57	153	CR 0638	83	159	CR 0665	87	135	CR 0732	76	178	CR 0761	76	97	CR 0914	57	109	CT 0606	79	161			
CC 0649	114	31	CC 0762	81	106	CR 0617	61	146	CR 0642	58	46	CR 0666	60	139	CR 0733	79	178	CR 0762	81	97	CR 0915	49	130	CT 0607	87	154			
CC 0651	106	27	CC 0765	78	104	CR 0618	61	154	CR 0643	60	46	CR 0667	102	138	CR 0734	88	169	CR 0763	84	114	CR 0916	49	132	CT 0608	71	39			
CC 0662	72	146	CC 0768	106	126	CR 0619	64	154	CR 0644	65	39	CR 0671	97	122	CR 0736	88	172	CR 0765	76	118	CR 0917	53	133	CT 0609	110	41			



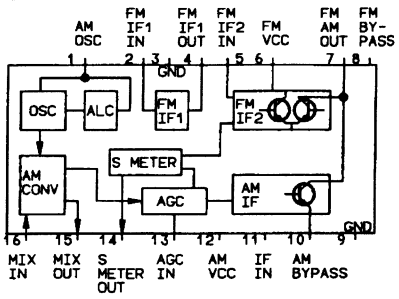


CX7961A

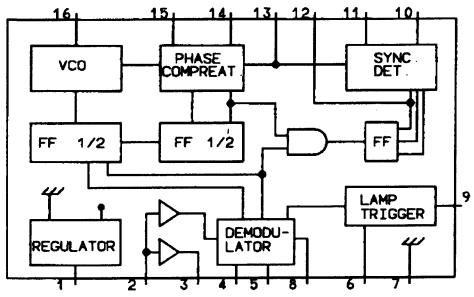


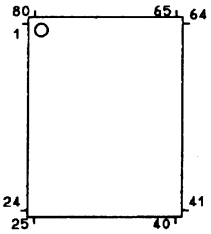
AENDERUNGEN VORBEHALTEN
SUBJECT TO ALTERATION
SOUS RESERVE DE MODIFIC.
CON RISERVA DI MODIFICA
RES. EL DERECHO DE MODIFIC.

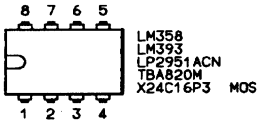
LA1205

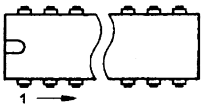


LA3361

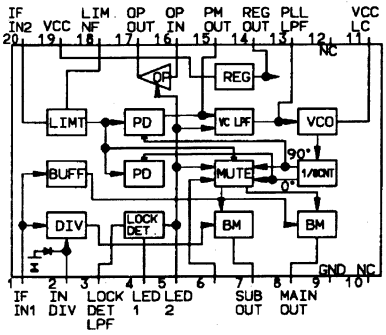


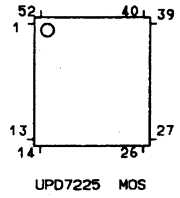


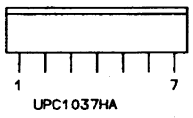


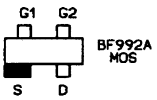


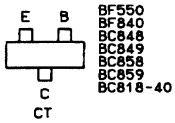
CX857

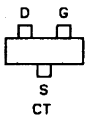










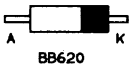


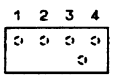
WIDERSTAND/RESISTOR
RESISTANCE/RESISTENZA/RESISTENCIA

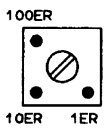
- MSW 0204 DIN
- CR
- MSW 0207 DIN

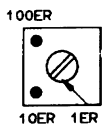
KONDENSATOR/CAPACITOR
CONDENSATEUR/CONDENSATORE/CONDENSADOR

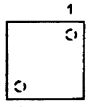
- ELKO
  ELECTROLYTIC
  ELECTROLYTIQUE
  ELETTROLITICO
  ELECTROLITICO
- FOLIE
  FOIL
  A FEUILLE
  A FOGLIA
  DELAMINA
- KERAMIK
  CERAMIC
  CERAMIQUE
  A CERAMICA
  CERAMICO
- CC=CHIP
- POLYPROPYLEN
  DE POLIPROPILENO
  (KS-KP)

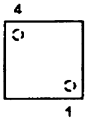


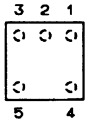


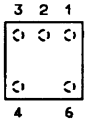




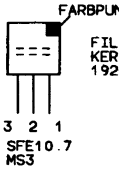








FARBKENNZEICHNUNG VON FILTERN
COLOUR CODE FOR FILTERS
REPERAGE EN COULEUR DES FILTRES
CONTR.COLORATO SUI FILTRI
CODIFICACION DE LOS FILTROS



VON OBEN GESEHEN
TOP VIEW
VUE DE HAUT
VISTA DA SOPRA
VISTO DESDE ARRIBA

GRUNDIG Ersatzteilliste
List of spare parts

Ⓓ Btx ★ 32700 #

3 / 91

SATELLIT 700

SACH-NR. / PART NO.: 9.15055-8151 G.RB 6051 P
9.15055-6251 G.RB 6051 GB P
9.15055-7151 G.RB 6051 UB P
9.15055-6151 G.RB 6051 IB P

POS. NR. POS. NO.	ABB. NR. FIG. NO.	SACHNUMMER PART NUMBER	ANZ. QUA.	BEZEICHNUNG Ⓓ	DESCRIPTION ⒼⒷ
0001.000	1	15055-095.01		GEHAEUSE-VORDERTEIL KPL	CABINET FRONT CPL.
0003.000	1	15055-035.00		TASTENSATZ KPL	KEYS SET CPL.
0006.000		15055-096.01		GEHAEUSE-RUECKTEIL KPL	CABINET BACK CPL.
0007.000		15041-017.05		STUETZKLAPPE	SUPPORT
0011.000		19401-078.00	35	TASTSCHALTER / BED.PL.	TACT SWITCH
0012.000	1	15054-098.01	4	DREHKNOPF KPL.	ROTARY KNOB CPL.
0013.000		09619-625.00	5	RINGFEDER	CIRCULAR SPRING
0014.000	1	15054-099.01		DREHKNOPF KPL.	ROTARY KNOB CPL.
0017.000		15054-040.00		DRUCKFEDER	COMPRESSION SPRING
0026.000		09234-143.04		MW-FERRITANTENNESPULE	FERRITE COIL
0027.000		09234-209.02		ANTENNENSPULE	ANTENNA COIL (AERIAL)
0028.000		09234-419.01		LW-FERRITANTENNENSPULE	FERRITE COIL
0031.000		19706-083.00		SCHIEBESCHALTER /POTI PL.	SLIDING SWITCH
0032.000		19706-087.00		SCHIEBESCHALTER / LOCK.	SLIDE SWITCH
0033.000		19706-089.00	2	SCHIEBESCHALTER /HF. PL.	SLIDING SWITCH
0043.000		09648-910.97		ANTENNENSTAB	FERRIT ROD
0044.000	1	09622-819.01		TELESKOPANTENNE	TELESCOPIC AERIAL
0045.000		15054-029.00		ANTENNENWINKEL	AERIAL BRACKET
0046.000		19426-056.00		FERRITSTABANTENNE KPL.	FERRITE ROD ANTENNA CPL.
0054.000		29303-136.01		KOAXSTECKER	COAXIAL PLUG
0056.000		09623-436.00		BUCHSE	SOCKET
0057.000		09623-410.00		CINCHBUCHSE	CHINCH SOCKET
0058.000		09623-383.00		FREMDSPANNUNGSBUCHSE	EXTERNAL VOLTAGE SOCKET
0059.000		09623-387.00		BUCHSE (KOPFHOERER)	HEADPHONE SOCKET
0061.000		15055-100.00		DC-WANDLER KPL.	DC CONVERTER CPL.
0063.000		09618-103.00		KONTAKTFEDER	CONTACT SPRING
0066.000		15054-048.00		BATTERIEABDECKUNG	BATTERY COVER
0067.000		15054-102.01		BATTERIEDECKEL KPL.	BATTERY LID CPL.
0069.000	⚠	8154-005-069		LITHIUM-BATTERIE	LITHIUM BATTERY
0072.000		19144-033.97		LAUTSPRECHER	LOUDSPEAKER
0078.000		15054-014.01		GRIFF	HANDLE
0079.000		15054-034.01		HAUBE	COVER
0080.000		15055-202.00		BEDIENTEIL	CONTROL UNIT
0081.000	⚠	8140-601-396		NETZTEIL NR 90	POWER SUPPLY NO.90
0081.100	⚠	8140-601-431		NETZTEIL NR 90 USA	POWER SUPPLY NO.90 USA
0082.000		09621-113.02	2	SICHERUNGSHALTER	FUSE HOLDER
0085.000		19720-221.00		FLUESSIGKRISTALLANZEIGE	LIQUID CRYSTAL DISPLAY
0086.000		8312-001-530		RELAIS V 23101-A103-A101	RELAY V 23101-A103-A101
0087.000		19411-008.00		IMPULSGEBER	IMPULS MODULE
		15055-941.01		BEDIENUNGSANLEITUNG	INSTRUCTION MANUAL
		72010-719.55		SERVICE MANUAL	SERVICE MANUAL

ÄNDERUNGEN VORBEHALTEN **ALTERNATIONS RESERVED**

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
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C 127	8699-999-335	TR.12 3/10PF VCT 56
C 138	8699-999-345	TR.13 4,5/20PF VCT 56
C 154	8699-999-356	TR.15 7,5/50PF VCT 56
C 209	8699-999-345	TR.13 4,5/20PF VCT 56
C 213	8699-999-356	TR.15 7,5/50PF VCT 56
C 224	8699-999-348	TR.14 5,5/30PF VCT 56
C 226	8699-999-348	TR.14 5,5/30PF VCT 56
C 231	8699-999-356	TR.15 7,5/50PF VCT 56
C 233	8699-999-356	TR.15 7,5/50PF VCT 56
C 237	8699-999-356	TR.15 7,5/50PF VCT 56
C 241	8699-999-356	TR.15 7,5/50PF VCT 56
C 243	8699-999-356	TR.15 7,5/50PF VCT 56
C 246	8699-999-356	TR.15 7,5/50PF VCT 56
C 304	8699-999-345	TR.13 4,5/20PF VCT 56
C 324	8699-999-333	TR.11 2,5/6PF VCT 56
C 403	8699-999-333	TR.11 2,5/6PF VCT 56
C 531	8699-999-337	TR.2 3,5/10PF VCT 31
C 818	8699-999-345	TR.13 4,5/20PF VCT 56
C 901	8452-996-107	ELKO CB 2200UF 16V
C 1128	8699-999-356	TR.15 7,5/50PF VCT 56
CC 11	8672-167-261	KEFQ 0805 0,018UF 10%
CC 12	8672-167-261	KEFQ 0805 0,018UF 10%
CC 13	8672-167-261	KEFQ 0805 0,018UF 10%
CC 21	8672-167-261	KEFQ 0805 0,018UF 10%
CC 22	8672-167-261	KEFQ 0805 0,018UF 10%
CC 23	8672-167-261	KEFQ 0805 0,018UF 10%
CC 32	8672-267-179	KEFQ 1206 0,047UF 10%
CC 104	8672-267-179	KEFQ 1206 0,047UF 10%
CC 106	8672-167-262	KEFQ 0805 0,022UF 10%
CC 111	8672-167-246	KEFQ 0805 1000PF 10%
CC 115	8672-167-246	KEFQ 0805 1000PF 10%
CC 118	8672-267-179	KEFQ 1206 0,047UF 10%
CC 119	8672-167-262	KEFQ 0805 0,022UF 10%
CC 121	8672-160-122	KEFQ 0805 10PF 5%
CC 122	8672-160-146	KEFQ 0805 1000PF 5%
CC 126	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 128	8672-160-130	KEFQ 0805 47PF 5%
CC 133	8672-267-179	KEFQ 1206 0,047UF 10%
CC 135	8672-167-262	KEFQ 0805 0,022UF 10%
CC 136	8672-160-133	KEFQ 0805 82PF 5%
CC 137	8672-160-127	KEFQ 0805 27PF 5%
CC 141	8672-160-122	KEFQ 0805 10PF 5%
CC 142	8672-160-146	KEFQ 0805 1000PF 5%
CC 143	8672-160-122	KEFQ 0805 10PF 5%
CC 145	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 146	8672-167-262	KEFQ 0805 0,022UF 10%
CC 147	8672-197-595	KEFQ 0805 3,3PF
CC 148	8672-160-127	KEFQ 0805 27PF 5%
CC 149	8672-160-129	KEFQ 0805 39PF 5%
CC 150	8672-160-131	KEFQ 0805 56PF 5%
CC 151	8672-160-124	KEFQ 0805 15PF 5%
CC 152	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 153	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 155	8672-160-146	KEFQ 0805 1000PF 5%
CC 201	8672-160-138	KEFQ 0805 220PF 5%
CC 202	8672-160-126	KEFQ 0805 22PF 5%
CC 203	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 204	8672-160-135	KEFQ 0805 120PF 5%
CC 205	8672-167-262	KEFQ 0805 0,022UF 10%
CC 206	8672-167-262	KEFQ 0805 0,022UF 10%
CC 207	8672-167-246	KEFQ 0805 1000PF 10%
CC 208	8672-167-262	KEFQ 0805 0,022UF 10%
CC 211	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 212	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 214	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 215	8672-267-187	KEFQ 1206 0,1 UF 10%

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
CC 216	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 217	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 218	8672-160-128	KEFQ 0805 33PF 5%
CC 219	8672-160-135	KEFQ 0805 120PF 5%
CC 221	8672-167-246	KEFQ 0805 1000PF 10%
CC 222	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 223	8672-160-123	KEFQ 0805 12PF 5%
CC 225	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 227	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 228	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 229	8672-160-130	KEFQ 0805 47PF 5%
CC 232	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 234	8672-160-126	KEFQ 0805 22PF 5%
CC 235	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 236	8672-160-146	KEFQ 0805 1000PF 5%
CC 238	8672-167-247	KEFQ 0805 1200PF 10%
CC 239	8672-167-247	KEFQ 0805 1200PF 10%
CC 241	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 242	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 244	8672-160-134	KEFQ 0805 100PF 5%
CC 245	8672-160-134	KEFQ 0805 100PF 5%
CC 247	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 249	8672-267-179	KEFQ 1206 0,047UF 10%
CC 254	8672-160-144	KEFQ 0805 680PF 5%
CC 258	8672-267-179	KEFQ 1206 0,047UF 10%
CC 259	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 301	8672-160-123	KEFQ 0805 12PF 5%
CC 305	8672-167-252	KEFQ 0805 3300PF 10%
CC 306	8672-160-142	KEFQ 0805 470PF 5%
CC 307	8672-167-252	KEFQ 0805 3300PF 10%
CC 308	8672-167-252	KEFQ 0805 3300PF 10%
CC 311	8672-160-123	KEFQ 0805 12PF 5%
CC 314	8672-160-141	KEFQ 0805 390PF 5%
CC 315	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 316	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 318	8672-167-246	KEFQ 0805 1000PF 10%
CC 319	8672-267-179	KEFQ 1206 0,047UF 10%
CC 321	8672-167-254	KEFQ 0805 4700PF 10%
CC 322	8672-160-146	KEFQ 0805 1000PF 5%
CC 326	8672-167-252	KEFQ 0805 3300PF 10%
CC 327	8672-160-126	KEFQ 0805 22PF 5%
CC 329	8672-160-146	KEFQ 0805 1000PF 5%
CC 331	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 334	8672-167-252	KEFQ 0805 3300PF 10%
CC 402	8672-160-017	KEFQ 0805 3,9PF
CC 404	8672-160-127	KEFQ 0805 27PF 5%
CC 405	8672-160-122	KEFQ 0805 10PF 5%
CC 406	8672-167-254	KEFQ 0805 4700PF 10%
CC 407	8672-267-179	KEFQ 1206 0,047UF 10%
CC 408	8672-160-123	KEFQ 0805 12PF 5%
CC 411	8672-160-122	KEFQ 0805 10PF 5%
CC 412	8672-160-130	KEFQ 0805 47PF 5%
CC 413	8672-160-132	KEFQ 0805 68PF 5%
CC 414	8672-160-135	KEFQ 0805 120PF 5%
CC 415	8672-160-133	KEFQ 0805 82PF 5%
CC 419	8672-160-146	KEFQ 0805 1000PF 5%
CC 421	8672-160-146	KEFQ 0805 1000PF 5%
CC 423	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 424	8672-167-262	KEFQ 0805 0,022UF 10%
CC 425	8672-167-246	KEFQ 0805 1000PF 10%
CC 427	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 428	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 429	8672-160-146	KEFQ 0805 1000PF 5%
CC 431	8672-160-131	KEFQ 0805 56PF 5%
CC 434	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 435	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 436	8672-160-139	KEFQ 0805 270PF 5%
CC 437	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 438	8672-267-179	KEFQ 1206 0,047UF 10%

ÄNDERUNGEN VORBEHALTEN ALTERNATIONS RESERVED

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
CC 439	8672-267-179	KEFQ 1206 0,047UF 10%
CC 441	8672-267-179	KEFQ 1206 0,047UF 10%
CC 452	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 453	8672-167-246	KEFQ 0805 1000PF 10%
CC 501	8672-267-179	KEFQ 1206 0,047UF 10%
CC 503	8672-267-179	KEFQ 1206 0,047UF 10%
CC 504	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 505	8672-260-147	KEFQ 1206 1200PF 5%
CC 506	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 507	8672-267-179	KEFQ 1206 0,047UF 10%
CC 510	8672-160-146	KEFQ 0805 1000PF 5%
CC 513	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 514	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 515	8672-160-126	KEFQ 0805 22PF 5%
CC 516	8672-260-147	KEFQ 1206 1200PF 5%
CC 517	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 519	8672-160-126	KEFQ 0805 22PF 5%
CC 521	8672-160-126	KEFQ 0805 22PF 5%
CC 522	8672-160-134	KEFQ 0805 100PF 5%
CC 525	8672-160-138	KEFQ 0805 220PF 5%
CC 527	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 532	8672-167-246	KEFQ 0805 1000PF 10%
CC 604	8672-267-179	KEFQ 1206 0,047UF 10%
CC 607	8672-160-244	KEFQ 0805 680PF 10%
CC 609	8672-167-260	KEFQ 0805 0,015UF 10%
CC 611	8672-167-260	KEFQ 0805 0,015UF 10%
CC 621	8672-167-259	KEFQ 0805 0,012UF 10%
CC 625	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 639	8672-167-246	KEFQ 0805 1000PF 10%
CC 642	8672-167-261	KEFQ 0805 0,018UF 10%
CC 643	8672-167-253	KEFQ 0805 3900PF 10%
CC 646	8672-267-179	KEFQ 1206 0,047UF 10%
CC 647	8672-167-254	KEFQ 0805 4700PF 10%
CC 648	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 649	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 651	8672-267-179	KEFQ 1206 0,047UF 10%
CC 662	8672-197-141	KEFQ 0805 470PF 10%
CC 665	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 668	8672-167-246	KEFQ 0805 1000PF 10%
CC 669	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 721	8672-167-259	KEFQ 0805 0,012UF 10%
CC 725	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 739	8672-167-246	KEFQ 0805 1000PF 10%
CC 742	8672-167-261	KEFQ 0805 0,018UF 10%
CC 743	8672-167-253	KEFQ 0805 3900PF 10%
CC 746	8672-267-179	KEFQ 1206 0,047UF 10%
CC 747	8672-167-254	KEFQ 0805 4700PF 10%
CC 748	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 749	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 751	8672-267-179	KEFQ 1206 0,047UF 10%
CC 762	8672-197-141	KEFQ 0805 470PF 10%
CC 765	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 768	8672-167-246	KEFQ 0805 1000PF 10%
CC 769	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 801	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 802	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 803	8672-160-132	KEFQ 0805 68PF 5%
CC 804	8672-160-132	KEFQ 0805 68PF 5%
CC 807	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 808	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 809	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 811	8672-160-146	KEFQ 0805 1000PF 5%
CC 813	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 814	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 817	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 821	8672-160-134	KEFQ 0805 100PF 5%
CC 822	8672-160-141	KEFQ 0805 390PF 5%
CC 823	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 824	8672-160-146	KEFQ 0805 1000PF 5%

ÄNDERUNGEN VORBEHALTEN

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
CC 827	8672-167-250	KEFQ 0805 2200PF 10%
CC 828	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 829	8672-160-145	KEFQ 0805 820PF 5%
CC 831	8672-167-250	KEFQ 0805 2200PF 10%
CC 832	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 833	8672-160-145	KEFQ 0805 820PF 5%
CC 839	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 843	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 905	8672-267-187	KEFQ 1206 0,1 UF 10%
CC 952	8672-267-287	KEFQ 1206 0,1 UF 20%
CC 954	8672-160-134	KEFQ 0805 100PF 5%
CC 956	8672-267-287	KEFQ 1206 0,1 UF 20%
CC 1001	8672-167-262	KEFQ 0805 0,022UF 10%
CC 1004	8672-160-135	KEFQ 0805 120PF 5%
CC 1005	8672-160-135	KEFQ 0805 120PF 5%
CC 1008	8672-160-129	KEFQ 0805 39PF 5%
CC 1009	8672-160-134	KEFQ 0805 100PF 5%
CC 1102	8672-198-173	KEFQ 0805 0,01 UF 10%
CC 1103	8672-267-179	KEFQ 1206 0,047UF 10%
CC 1107	8672-267-179	KEFQ 1206 0,047UF 10%
CC 1108	8672-267-179	KEFQ 1206 0,047UF 10%
CC 1109	8672-267-179	KEFQ 1206 0,047UF 10%
CC 1113	8672-167-262	KEFQ 0805 0,022UF 10%
CC 1114	8672-167-262	KEFQ 0805 0,022UF 10%
CC 1115	8672-167-262	KEFQ 0805 0,022UF 10%
CC 1116	8672-167-262	KEFQ 0805 0,022UF 10%
CC 1118	8672-167-246	KEFQ 0805 1000PF 10%
CC 1119	8672-167-262	KEFQ 0805 0,022UF 10%
CC 1121	8672-167-262	KEFQ 0805 0,022UF 10%
CC 1123	8672-167-246	KEFQ 0805 1000PF 10%
CC 1124	8672-267-179	KEFQ 1206 0,047UF 10%
CC 1125	8672-160-126	KEFQ 0805 22PF 5%
CC 1126	8672-160-126	KEFQ 0805 22PF 5%
CC 1127	8672-160-126	KEFQ 0805 22PF 5%
CC 1129	8672-167-262	KEFQ 0805 0,022UF 10%
CC 1131	8672-167-262	KEFQ 0805 0,022UF 10%
CC 1132	8672-167-262	KEFQ 0805 0,022UF 10%
CC 1133	8672-167-262	KEFQ 0805 0,022UF 10%
CC 1134	8672-167-262	KEFQ 0805 0,022UF 10%
CC 1135	8672-167-262	KEFQ 0805 0,022UF 10%
CIC1001	8305-303-779	IC SAF 7579 T (SO-16L)PHI
CIC801	8305-258-857	IC CX 857 L SONY
CL 201	8140-526-477	L-CHIP 1206 0,82UH
CL 202	8140-526-477	L-CHIP 1206 0,82UH
CL 203	8140-526-478	L-CHIP 1206 3,3UH
CL 303	8140-526-472	L-CHIP 1206 2,2UH
CL 306	8140-526-476	L-CHIP 1206 0,47UH
CL 403	8140-526-474	L-CHIP 1206 0,39UH
CR 01	8706-297-000	R-CHIP 1206 0 OHM
CR 02	8706-297-000	R-CHIP 1206 0 OHM
CR 03	8706-297-000	R-CHIP 1206 0 OHM
CR 04	8706-297-000	R-CHIP 1206 0 OHM
CR 05	8706-297-000	R-CHIP 1206 0 OHM
CR 06	8706-297-000	R-CHIP 1206 0 OHM
CR 07	8706-297-000	R-CHIP 1206 0 OHM
CR 08	8706-297-000	R-CHIP 1206 0 OHM
CR 10	8706-100-127	R-CHIP 0805 180 KOHM 5%
CR 11	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 12	8706-100-097	R-CHIP 0805 10 KOHM 5%

ALTERNATIONS RESERVED

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
CR 13	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 14	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 15	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 16	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 17	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 18	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 19	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 20	8706-100-127	R-CHIP 0805 180 KOHM 5%
CR 21	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 22	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 23	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 24	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 25	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 26	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 27	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 28	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 29	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 31	8706-297-000	R-CHIP 1206 0 OHM
CR 32	8706-297-000	R-CHIP 1206 0 OHM
CR 33	8706-297-000	R-CHIP 1206 0 OHM
CR 35	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 37	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 41	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 45	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 46	8706-297-000	R-CHIP 1206 0 OHM
CR 47	8706-297-000	R-CHIP 1206 0 OHM
CR 48	8706-297-000	R-CHIP 1206 0 OHM
CR 102	8706-100-093	R-CHIP 0805 6,8 KOHM 5%
CR 103	8706-100-093	R-CHIP 0805 6,8 KOHM 5%
CR 104	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 105	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 106	8706-100-093	R-CHIP 0805 6,8 KOHM 5%
CR 107	8706-100-091	R-CHIP 0805 5,6 KOHM 5%
CR 108	8706-100-027	R-CHIP 0805 12 OHM 5%
CR 109	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 112	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 113	8706-100-115	R-CHIP 0805 56 KOHM 5%
CR 114	8706-100-069	R-CHIP 0805 680 OHM 5%
CR 115	8706-100-063	R-CHIP 0805 390 OHM 5%
CR 116	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 117	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 118	8706-100-091	R-CHIP 0805 5,6 KOHM 5%
CR 119	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 121	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 122	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 123	8706-100-077	R-CHIP 0805 1,5 KOHM 5%
CR 124	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 125	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 126	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 127	8706-100-049	R-CHIP 0805 100 OHM 5%
CR 128	8706-100-027	R-CHIP 0805 12 OHM 5%
CR 129	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 132	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 133	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 134	8706-100-101	R-CHIP 0805 15 KOHM 5%
CR 135	8706-100-069	R-CHIP 0805 680 OHM 5%
CR 136	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 137	8706-100-105	R-CHIP 0805 22 KOHM 5%
CR 201	8706-100-087	R-CHIP 0805 3,9 KOHM 5%
CR 202	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 203	8706-100-131	R-CHIP 0805 270 KOHM 5%
CR 204	8706-100-145	R-CHIP 0805 1 MOHM 5%
CR 205	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 206	8706-100-071	R-CHIP 0805 820 OHM 5%
CR 207	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 208	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 209	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 211	8706-100-057	R-CHIP 0805 220 OHM 5%
CR 212	8706-100-113	R-CHIP 0805 47 KOHM 5%

ÄNDERUNGEN VORBEHALTEN

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
CR 213	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 214	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 215	8706-100-049	R-CHIP 0805 100 OHM 5%
CR 216	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 217	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 221	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 222	8706-100-041	R-CHIP 0805 47 OHM 5%
CR 223	8706-100-041	R-CHIP 0805 47 OHM 5%
CR 224	8706-100-027	R-CHIP 0805 12 OHM 5%
CR 225	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 226	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 227	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 228	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 229	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 231	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 232	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 233	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 234	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 235	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 236	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 237	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 238	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 239	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 241	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 242	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 243	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 244	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 245	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 246	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 247	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 248	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 251	8706-100-035	R-CHIP 0805 27 OHM 5%
CR 252	8706-100-059	R-CHIP 0805 270 OHM 5%
CR 253	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 254	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 256	8706-100-053	R-CHIP 0805 150 OHM 5%
CR 257	8706-100-059	R-CHIP 0805 270 OHM 5%
CR 258	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 259	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 261	8706-100-057	R-CHIP 0805 220 OHM 5%
CR 262	8706-100-049	R-CHIP 0805 100 OHM 5%
CR 301	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 302	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 303	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 304	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 305	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 306	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 307	8706-100-093	R-CHIP 0805 6,8 KOHM 5%
CR 308	8706-100-071	R-CHIP 0805 820 OHM 5%
CR 309	8706-100-043	R-CHIP 0805 56 OHM 5%
CR 311	8706-100-043	R-CHIP 0805 56 OHM 5%
CR 312	8706-100-067	R-CHIP 0805 560 OHM 5%
CR 313	8706-100-131	R-CHIP 0805 270 KOHM 5%
CR 314	8706-100-075	R-CHIP 0805 1,2 KOHM 5%
CR 315	8706-100-061	R-CHIP 0805 330 OHM 5%
CR 316	8706-100-049	R-CHIP 0805 100 OHM 5%
CR 317	8706-100-049	R-CHIP 0805 100 OHM 5%
CR 318	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 321	8706-100-053	R-CHIP 0805 150 OHM 5%
CR 322	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 323	8706-100-087	R-CHIP 0805 3,9 KOHM 5%
CR 324	8706-100-041	R-CHIP 0805 47 OHM 5%
CR 325	8706-100-079	R-CHIP 0805 1,8 KOHM 5%
CR 326	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 327	8706-100-093	R-CHIP 0805 6,8 KOHM 5%
CR 328	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 329	8706-100-053	R-CHIP 0805 150 OHM 5%
CR 331	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 402	8706-100-109	R-CHIP 0805 33 KOHM 5%

ALTERNATIONS RESERVED

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
CR 403	8706-100-061	R-CHIP 0805 330 OHM 5%
CR 404	8706-100-057	R-CHIP 0805 220 OHM 5%
CR 405	8706-100-101	R-CHIP 0805 15 KOHM 5%
CR 406	8706-100-107	R-CHIP 0805 27 KOHM 5%
CR 408	8706-100-053	R-CHIP 0805 150 OHM 5%
CR 412	8706-100-077	R-CHIP 0805 1,5 KOHM 5%
CR 413	8706-100-077	R-CHIP 0805 1,5 KOHM 5%
CR 414	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 415	8706-100-103	R-CHIP 0805 18 KOHM 5%
CR 416	8706-100-105	R-CHIP 0805 22 KOHM 5%
CR 417	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 418	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 419	8706-100-119	R-CHIP 0805 82 KOHM 5%
CR 421	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 422	8706-100-103	R-CHIP 0805 18 KOHM 5%
CR 423	8706-100-087	R-CHIP 0805 3,9 KOHM 5%
CR 425	8706-100-119	R-CHIP 0805 82 KOHM 5%
CR 426	8706-100-103	R-CHIP 0805 18 KOHM 5%
CR 427	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 428	8706-100-105	R-CHIP 0805 22 KOHM 5%
CR 429	8706-100-049	R-CHIP 0805 100 OHM 5%
CR 431	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 432	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 433	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 434	8706-100-103	R-CHIP 0805 18 KOHM 5%
CR 435	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 436	8706-100-059	R-CHIP 0805 270 OHM 5%
CR 437	8706-100-079	R-CHIP 0805 1,8 KOHM 5%
CR 438	8706-100-071	R-CHIP 0805 820 OHM 5%
CR 439	8706-100-079	R-CHIP 0805 1,8 KOHM 5%
CR 441	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 442	8706-100-049	R-CHIP 0805 100 OHM 5%
CR 443	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 444	8706-100-049	R-CHIP 0805 100 OHM 5%
CR 445	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 446	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 447	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 451	8706-100-115	R-CHIP 0805 56 KOHM 5%
CR 453	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 503	8706-100-035	R-CHIP 0805 27 OHM 5%
CR 504	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 505	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 506	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 507	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 509	8706-100-067	R-CHIP 0805 560 OHM 5%
CR 511	8706-100-105	R-CHIP 0805 22 KOHM 5%
CR 513	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 514	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 515	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 516	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 517	8706-100-091	R-CHIP 0805 5,6 KOHM 5%
CR 518	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 519	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 521	8706-100-067	R-CHIP 0805 560 OHM 5%
CR 522	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 523	8706-100-027	R-CHIP 0805 12 OHM 5%
CR 524	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 525	8706-100-127	R-CHIP 0805 180 KOHM 5%
CR 526	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 527	8706-100-091	R-CHIP 0805 5,6 KOHM 5%
CR 528	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 529	8706-100-107	R-CHIP 0805 27 KOHM 5%
CR 532	8706-100-093	R-CHIP 0805 6,8 KOHM 5%
CR 534	8706-100-145	R-CHIP 0805 1 MOHM 5%
CR 535	8706-100-119	R-CHIP 0805 82 KOHM 5%
CR 536	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 538	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 602	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 604	8706-100-073	R-CHIP 0805 1 KOHM 5%

ÄNDERUNGEN VORBEHALTEN

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
CR 606	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 607	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 609	8706-100-105	R-CHIP 0805 22 KOHM 5%
CR 611	8706-100-125	R-CHIP 0805 150 KOHM 5%
CR 612	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 613	8706-297-000	R-CHIP 1206 0 OHM
CR 614	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 616	8706-100-129	R-CHIP 0805 220 KOHM 5%
CR 617	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 618	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 621	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 622	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 623	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 624	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 625	8706-100-145	R-CHIP 0805 1 MOHM 5%
CR 626	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 629	8706-100-087	R-CHIP 0805 3,9 KOHM 5%
CR 631	8706-100-103	R-CHIP 0805 18 KOHM 5%
CR 632	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 633	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 634	8706-100-131	R-CHIP 0805 270 KOHM 5%
CR 636	8706-100-141	R-CHIP 0805 680 KOHM 5%
CR 637	8706-100-075	R-CHIP 0805 1,2 KOHM 5%
CR 638	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 642	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 643	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 644	8706-100-129	R-CHIP 0805 220 KOHM 5%
CR 645	8706-100-133	R-CHIP 0805 330 KOHM 5%
CR 646	8706-100-105	R-CHIP 0805 22 KOHM 5%
CR 647	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 649	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 652	8706-100-087	R-CHIP 0805 3,9 KOHM 5%
CR 653	8706-100-099	R-CHIP 0805 12 KOHM 5%
CR 654	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 655	8706-100-075	R-CHIP 0805 1,2 KOHM 5%
CR 657	8706-297-000	R-CHIP 1206 0 OHM
CR 661	8706-100-131	R-CHIP 0805 270 KOHM 5%
CR 662	8706-100-051	R-CHIP 0805 120 OHM 5%
CR 663	8706-100-047	R-CHIP 0805 82 OHM 5%
CR 665	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 666	8706-100-075	R-CHIP 0805 1,2 KOHM 5%
CR 667	8706-100-041	R-CHIP 0805 47 OHM 5%
CR 671	8706-297-000	R-CHIP 1206 0 OHM
CR 721	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 722	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 723	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 724	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 725	8706-100-145	R-CHIP 0805 1 MOHM 5%
CR 726	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 727	8706-100-131	R-CHIP 0805 270 KOHM 5%
CR 729	8706-100-087	R-CHIP 0805 3,9 KOHM 5%
CR 731	8706-100-103	R-CHIP 0805 18 KOHM 5%
CR 732	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 733	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 734	8706-100-131	R-CHIP 0805 270 KOHM 5%
CR 736	8706-100-141	R-CHIP 0805 680 KOHM 5%
CR 737	8706-100-075	R-CHIP 0805 1,2 KOHM 5%
CR 738	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 742	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 743	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 744	8706-100-129	R-CHIP 0805 220 KOHM 5%
CR 745	8706-100-133	R-CHIP 0805 330 KOHM 5%
CR 746	8706-100-105	R-CHIP 0805 22 KOHM 5%
CR 747	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 749	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 752	8706-100-087	R-CHIP 0805 3,9 KOHM 5%
CR 753	8706-100-099	R-CHIP 0805 12 KOHM 5%
CR 754	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 755	8706-100-075	R-CHIP 0805 1,2 KOHM 5%

ALTERNATIONS RESERVED

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
CR 761	8706-100-131	R-CHIP 0805 270 KOHM 5%
CR 762	8706-100-051	R-CHIP 0805 120 OHM 5%
CR 763	8706-100-047	R-CHIP 0805 82 OHM 5%
CR 765	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 767	8706-100-041	R-CHIP 0805 47 OHM 5%
CR 768	8706-297-000	R-CHIP 1206 0 OHM
CR 769	8706-297-000	R-CHIP 1206 0 OHM
CR 771	8706-297-000	R-CHIP 1206 0 OHM
CR 772	8706-297-000	R-CHIP 1206 0 OHM
CR 801	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 802	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 803	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 804	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 805	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 806	8706-100-093	R-CHIP 0805 6,8 KOHM 5%
CR 807	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 808	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 809	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 811	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 814	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 815	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 816	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 818	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 819	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 821	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 822	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 823	8706-100-127	R-CHIP 0805 180 KOHM 5%
CR 824	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 825	8706-100-131	R-CHIP 0805 270 KOHM 5%
CR 826	8706-100-145	R-CHIP 0805 1 MOHM 5%
CR 827	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 828	8706-100-049	R-CHIP 0805 100 OHM 5%
CR 829	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 831	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 832	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 833	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 834	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 835	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 836	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 837	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 838	8706-100-115	R-CHIP 0805 56 KOHM 5%
CR 839	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 841	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 842	8706-100-145	R-CHIP 0805 1 MOHM 5%
CR 843	8706-100-049	R-CHIP 0805 100 OHM 5%
CR 844	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 845	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 846	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 847	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 848	8706-100-133	R-CHIP 0805 330 KOHM 5%
CR 849	8706-100-101	R-CHIP 0805 15 KOHM 5%
CR 851	8706-100-085	R-CHIP 0805 3,3 KOHM 5%
CR 853	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 854	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 855	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 856	8706-100-057	R-CHIP 0805 220 OHM 5%
CR 857	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 858	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 859	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 862	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 863	8706-100-133	R-CHIP 0805 330 KOHM 5%
CR 864	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 865	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 866	8706-100-129	R-CHIP 0805 220 KOHM 5%
CR 901	8706-100-065	R-CHIP 0805 470 OHM 5%
CR 904	8706-100-131	R-CHIP 0805 270 KOHM 5%
CR 906	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 908	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 909	8706-100-097	R-CHIP 0805 10 KOHM 5%

ÄNDERUNGEN VORBEHALTEN

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
CR 911	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 912	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 914	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 915	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 916	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 917	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 918	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 919	8706-100-063	R-CHIP 0805 390 OHM 5%
CR 921	8706-297-000	R-CHIP 1206 0 OHM
CR 951	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 952	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 953	8706-100-041	R-CHIP 0805 47 OHM 5%
CR 954	8706-100-001	R-CHIP 0805 1 OHM 5%
CR 955	8706-100-087	R-CHIP 0805 3,9 KOHM 5%
CR 956	8706-100-049	R-CHIP 0805 100 OHM 5%
CR 1001	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 1002	8706-100-125	R-CHIP 0805 150 KOHM 5%
CR 1003	8706-100-133	R-CHIP 0805 330 KOHM 5%
CR 1004	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1005	8706-100-027	R-CHIP 0805 12 OHM 5%
CR 1006	8706-100-103	R-CHIP 0805 18 KOHM 5%
CR 1007	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 1008	8706-100-103	R-CHIP 0805 18 KOHM 5%
CR 1009	8706-100-103	R-CHIP 0805 18 KOHM 5%
CR 1012	8706-100-129	R-CHIP 0805 220 KOHM 5%
CR 1013	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 1014	8706-100-133	R-CHIP 0805 330 KOHM 5%
CR 1015	8706-100-125	R-CHIP 0805 150 KOHM 5%
CR 1016	8706-100-133	R-CHIP 0805 330 KOHM 5%
CR 1017	8706-100-125	R-CHIP 0805 150 KOHM 5%
CR 1018	8706-100-075	R-CHIP 0805 1,2 KOHM 5%
CR 1102	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 1103	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1104	8706-100-131	R-CHIP 0805 270 KOHM 5%
CR 1105	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1106	8706-100-025	R-CHIP 0805 10 OHM 5%
CR 1107	8706-100-075	R-CHIP 0805 1,2 KOHM 5%
CR 1108	8706-100-083	R-CHIP 0805 2,7 KOHM 5%
CR 1109	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 1111	8706-100-131	R-CHIP 0805 270 KOHM 5%
CR 1112	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 1113	8706-100-109	R-CHIP 0805 33 KOHM 5%
CR 1114	8706-100-081	R-CHIP 0805 2,2 KOHM 5%
CR 1115	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1116	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 1118	8706-100-325	R-CHIP 0805 150 KOHM 2%
CR 1119	8706-100-057	R-CHIP 0805 220 OHM 5%
CR 1121	8706-100-083	R-CHIP 0805 2,7 KOHM 5%
CR 1122	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 1123	8706-100-131	R-CHIP 0805 270 KOHM 5%
CR 1124	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 1125	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1126	8706-100-129	R-CHIP 0805 220 KOHM 5%
CR 1127	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1128	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 1129	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1131	8706-100-129	R-CHIP 0805 220 KOHM 5%
CR 1132	8706-100-135	R-CHIP 0805 390 KOHM 5%
CR 1134	8706-100-115	R-CHIP 0805 56 KOHM 5%
CR 1136	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 1137	8706-100-115	R-CHIP 0805 56 KOHM 5%
CR 1142	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1143	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1144	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1145	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1146	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1147	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1148	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1149	8706-100-121	R-CHIP 0805 100 KOHM 5%

ALTERNATIONS RESERVED

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
CR 1151	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1152	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1153	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1154	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1155	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1156	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1161	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1162	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 1163	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 1164	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1165	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1166	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 1167	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 1168	8706-100-133	R-CHIP 0805 330 KOHM 5%
CR 1169	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 1171	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 1172	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 1173	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 1174	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 1175	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1176	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1177	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 1178	8706-100-089	R-CHIP 0805 4,7 KOHM 5%
CR 1179	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1181	8706-100-097	R-CHIP 0805 10 KOHM 5%
CR 1182	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1183	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 1184	8706-100-113	R-CHIP 0805 47 KOHM 5%
CR 1185	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1186	8706-100-121	R-CHIP 0805 100 KOHM 5%
CR 1187	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 1188	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 1189	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 1191	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 1192	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 1193	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 1194	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 1195	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 1196	8706-100-117	R-CHIP 0805 68 KOHM 5%
CR 1197	8706-100-083	R-CHIP 0805 2,7 KOHM 5%
CR 1198	8706-100-073	R-CHIP 0805 1 KOHM 5%
CR 1199	8706-100-093	R-CHIP 0805 6,8 KOHM 5%
CT 11	8301-006-848	SMD-TRANS.BC 848 C
CT 12	8301-006-848	SMD-TRANS.BC 848 C
CT 101	8301-006-848	SMD-TRANS.BC 848 C
CT 102	8301-130-543	SMD-TRANS.BF 543 E 7810
CT 103	8301-130-840	SMD-TRANS.BF 840
CT 104	8301-130-543	SMD-TRANS.BF 543 E 7810
CT 105	8301-006-848	SMD-TRANS.BC 848 C
CT 106	8301-130-543	SMD-TRANS.BF 543 E 7810
CT 107	8301-130-840	SMD-TRANS.BF 840
CT 201	8301-006-858	SMD-TRANS.BC 858 C
CT 202	8301-006-858	SMD-TRANS.BC 858 C
CT 203	8301-006-858	SMD-TRANS.BC 858 C
CT 204	8301-130-992	SMD-TRANS.BF 992 A
CT 205	8301-130-550	SMD-TRANS.BF 550
CT 206	8301-130-543	SMD-TRANS.BF 543 E 7810
CT 207	8301-130-543	SMD-TRANS.BF 543 E 7810
CT 301	8301-130-999	SMD-TRANS.BF 999 E7727
CT 302	8301-130-550	SMD-TRANS.BF 550
CT 303	8301-130-840	SMD-TRANS.BF 840
CT 304	8301-130-543	SMD-TRANS.BF 543 E 7810
CT 305	8301-130-550	SMD-TRANS.BF 550
CT 306	8301-130-543	SMD-TRANS.BF 543 E 7810
CT 401	8301-130-550	SMD-TRANS.BF 550

ÄNDERUNGEN VORBEHALTEN

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
CT 402	8301-130-543	SMD-TRANS.BF 543 E 7810
CT 403	8301-130-543	SMD-TRANS.BF 543 E 7810
CT 404	8301-130-840	SMD-TRANS.BF 840
CT 405	8301-006-848	SMD-TRANS.BC 848 C
CT 406	8301-130-992	SMD-TRANS.BF 992 A
CT 407	8301-130-992	SMD-TRANS.BF 992 A
CT 408	8301-130-840	SMD-TRANS.BF 840
CT 409	8301-130-840	SMD-TRANS.BF 840
CT 411	8301-130-840	SMD-TRANS.BF 840
CT 412	8301-006-848	SMD-TRANS.BC 848 C
CT 413	8301-130-840	SMD-TRANS.BF 840
CT 501	8301-006-858	SMD-TRANS.BC 858 C
CT 502	8301-006-848	SMD-TRANS.BC 848 C
CT 503	8301-006-848	SMD-TRANS.BC 848 C
CT 601	8301-004-848	SMD-TRANS.BC 848 B
CT 603	8301-006-848	SMD-TRANS.BC 848 C
CT 604	8301-006-848	SMD-TRANS.BC 848 C
CT 605	8301-006-849	SMD-TRANS.BC 849 C
CT 606	8301-006-859	SMD-TRANS.BC 859 C
CT 607	8301-006-848	SMD-TRANS.BC 848 C
CT 608	8301-006-848	SMD-TRANS.BC 848 C
CT 704	8301-006-848	SMD-TRANS.BC 848 C
CT 705	8301-006-849	SMD-TRANS.BC 849 C
CT 706	8301-006-859	SMD-TRANS.BC 859 C
CT 707	8301-006-848	SMD-TRANS.BC 848 C
CT 708	8301-006-848	SMD-TRANS.BC 848 C
CT 801	8301-006-848	SMD-TRANS.BC 848 C
CT 802	8301-006-848	SMD-TRANS.BC 848 C
CT 803	8301-006-848	SMD-TRANS.BC 848 C
CT 804	8301-006-848	SMD-TRANS.BC 848 C
CT 805	8301-130-543	SMD-TRANS.BF 543 E 7810
CT 806	8301-006-848	SMD-TRANS.BC 848 C
CT 807	8301-130-543	SMD-TRANS.BF 543 E 7810
CT 808	8301-006-848	SMD-TRANS.BC 848 C
CT 809	8301-006-848	SMD-TRANS.BC 848 C
CT 811	8301-006-848	SMD-TRANS.BC 848 C
CT 902	8301-006-848	SMD-TRANS.BC 848 C
CT 904	8301-002-858	SMD-TRANS.BC 858 A
CT 905	8301-006-858	SMD-TRANS.BC 858 C
CT 906	8301-002-858	SMD-TRANS.BC 858 A
CT 908	8301-006-848	SMD-TRANS.BC 848 C
CT 909	8301-006-848	SMD-TRANS.BC 848 C
CT 911	8301-006-848	SMD-TRANS.BC 848 C
CT 912	8301-006-848	SMD-TRANS.BC 848 C
CT 1001	8301-006-858	SMD-TRANS.BC 858 C
CT 1102	8301-006-858	SMD-TRANS.BC 858 C
CT 1103	8301-006-848	SMD-TRANS.BC 848 C
CT 1104	8301-006-858	SMD-TRANS.BC 858 C
CT 1105	8301-006-848	SMD-TRANS.BC 848 C
CT 1107 ⚠	8301-006-858	SMD-TRANS.BC 858 C
CT 1108	8301-006-848	SMD-TRANS.BC 848 C
CT 1109	8301-006-848	SMD-TRANS.BC 848 C
CT 1111	8301-006-848	SMD-TRANS.BC 848 C
CT 1112	8301-006-848	SMD-TRANS.BC 848 C
CT 1113	8301-006-848	SMD-TRANS.BC 848 C
CT 1114	8301-006-848	SMD-TRANS.BC 848 C
CT 1115	8301-006-848	SMD-TRANS.BC 848 C
CT 1116	8301-006-848	SMD-TRANS.BC 848 C
CT 1117	8301-006-848	SMD-TRANS.BC 848 C
CT 1118	8301-006-848	SMD-TRANS.BC 848 C
CT 1121	8301-006-858	SMD-TRANS.BC 858 C
CT 1122	8301-006-858	SMD-TRANS.BC 858 C
CT 1123	8301-006-858	SMD-TRANS.BC 858 C
CD 101	8309-430-619	KAP.PLAST DIODE BB 619
CD 401	8309-325-620	CHIP KAP DIODE BB 620
CD 402	8309-210-016	SMD-DIODE BAS 16 PHI
CD 801	8309-430-619	KAP.PLAST DIODE BB 619

ALTERNATIONS RESERVED

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
D 11	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 12	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 13	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 14	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 15	8309-198-042	DIODE BAT 42 THO
D 102	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 103	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 203	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 204	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 205	8309-201-480	DIODE BA 479 S
D 208	8309-201-026	DIODE BA 243
D 209	8309-201-480	DIODE BA 479 S
D 213	8309-201-026	DIODE BA 243
D 214	8309-201-026	DIODE BA 243
D 217	8309-201-026	DIODE BA 243
D 218	8309-201-026	DIODE BA 243
D 222	8309-201-026	DIODE BA 243
D 223	8309-201-026	DIODE BA 243
D 224	8309-201-026	DIODE BA 243
D 301	8309-510-254	DIODE BB 204 GRUEN SIE/
D 302	8309-510-254	DIODE BB 204 GRUEN SIE/
D 303	8309-510-254	DIODE BB 204 GRUEN SIE/
D 304	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 305	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 306	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 307	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 308	8309-510-252	DIODE BB 204 BLAU SIE/
D 309	8309-201-026	DIODE BA 243
D 501	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 502	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 503	8309-198-081	DIODE BAT 81
D 504	8309-198-081	DIODE BAT 81
D 505	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 601	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 602	8309-940-002	LE DIODE LT 8001 P SHARP
D 603	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 604	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 605	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 802	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 803	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 901	8309-940-002	LE DIODE LT 8001 P SHARP
D 902	8309-215-006	DIODE 1 N 4001 -GA
D 903	8309-518-130	DIODE SB 130 GI WW.
D 904	8309-215-006	DIODE 1 N 4001 -GA
D 905	8309-215-043	DIODE 1 N 4151 PHI/TFK/
D 906	8309-720-046	Z DIODE 4,7 B 0,5W
D 911	8309-200-018	DIODE BAV 19 VAL
D 912	8309-701-230	Z DIODE BZX 55 B30 TFK
D 1101	8309-720-051	Z DIODE 5,1 B 0,5W
D 1102	8309-198-042	DIODE BAT 42 THO
D 1103	8309-198-042	DIODE BAT 42 THO
D 1104	8309-198-042	DIODE BAT 42 THO
D 1105	8309-198-042	DIODE BAT 42 THO
D 1106	8309-198-042	DIODE BAT 42 THO
D 201/2	8309-510-130	DIODE BB 130
D 206/2	8309-510-130	DIODE BB 130
D 211/2	8309-510-130	DIODE BB 130
D 215/2	8309-510-130	DIODE BB 130
D 219/2	8309-510-130	DIODE BB 130
F 1	07202-346.97	FILTER 7X7
F 2	19203-121.14	KERAMIK-FILTER-SATZ

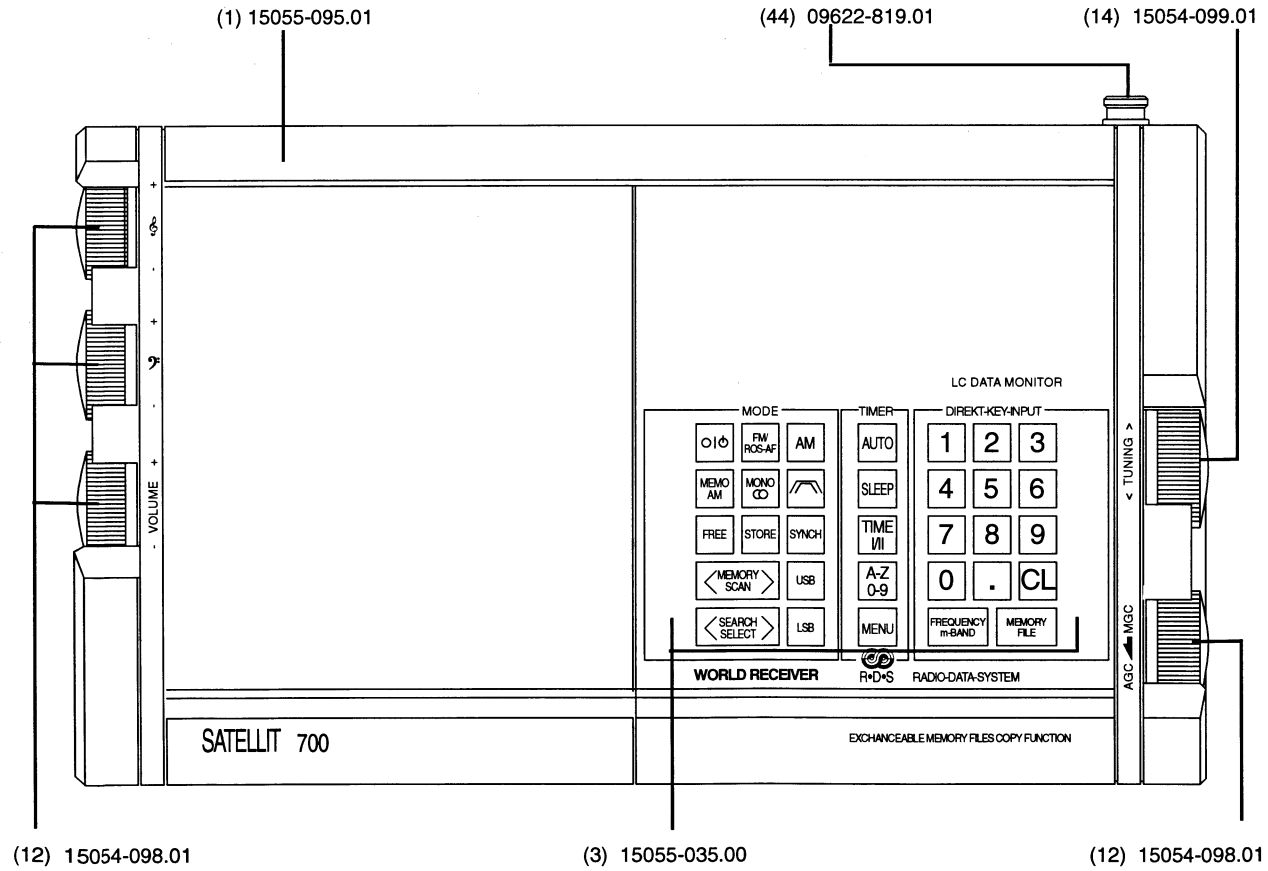
POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG (D) / DESCRIPTION (GB)
F 3	19203-121.14	KERAMIK-FILTER-SATZ
F 4	19203-121.14	KERAMIK-FILTER-SATZ
F 5	19202-701.97	SPULE 10X10
F 6	8382-251-497	QUARZFILTER 54,5 MHZ
F 7	07202-635.97	FILTER 7X7
F 8	19203-113.14	KERAMIK-FILTER SFR 450 H
F 9	19203-102.14	KERAMIK-FILTER SFR 450 J
F 10	19203-121.14	KERAMIK-FILTER-SATZ
F 11	8602-331-084	KER.RES.84 3,6 MGF 104
F 12	07202-713.10	SPULE 7X7
IC 11	8305-275-725	IC UPD 7225 G-00 NEC
IC 21	8305-275-725	IC UPD 7225 G-00 NEC
IC 101	8305-258-161	IC CX 7961 A SONY
IC 102	8305-274-037	IC UPC 1037 HA NEC
IC 103	8305-258-162	IC CX 7961 A-1 SONY
IC 104	8305-274-037	IC UPC 1037 HA NEC
IC 501	8305-260-155	IC LA 1205 SANYO
IC 502	8305-204-393	IC LM 393P TID/393N RAY/
IC 601	8305-260-331	IC LA 3361 SANYO
IC 602	8305-302-036	IC TBA 820 M
IC 702	8305-302-036	IC TBA 820 M
IC 802	8305-205-067	MC 14066BCP MOT/HCF 4066
IC 1002	8305-204-393	IC LM 393P TID/393N RAY/
IC 1101	8305-275-316	IC UPD 75516
IC 1102	8305-204-357	IC LM 358 N NSC/TID/MOT/
IC 1103	8305-268-295	IC LP 2951 AC (N)
IC 1104	8305-602-416	IC X 24 C 16-P3
L 11	8140-526-099	DR AX 0309-GA 1MH
L 21	8140-526-099	DR AX 0309-GA 1MH
L 103	8140-526-421	DR AX 0411-GA 2,7UH
L 104	07202-726.97	SPULE
L 108	8140-526-431	DR AX 0411-GA 0,33UH
L 109	07202-640.97	SPULE 7X7
L 204	8140-525-915	DR AX 0411-GA 1MH
L 205	8140-526-329	DR AX 0411-GA 150UH
L 206	8140-525-884	DR AX 0411-GA 68UH
L 211	8140-526-400	DR AX 0411-GA 100UH
L 301	8140-526-430	DR AX 0411-GA 0,22UH
L 302	8140-530-250	UKW-SPULE 4/75
L 304	8140-530-264	UKW-SPULE 3/34
L 305	8140-530-264	UKW-SPULE 3/34
L 307	8140-525-950	DR AX 0411-GA 27UH
L 308	8140-530-266	UKW-SPULE 3/32
L 401	8140-526-401	DR AX 0411-GA 6,8UH
L 402	8140-526-430	DR AX 0411-GA 0,22UH
L 404	19202-706.97	RINGKERNUEBERTRAGER
L 405	8140-526-419	DR AX 0411-GA 1UH
L 406	8140-525-828	DR AX 0411-GA 2,2UH
L 407	09238-334.01	UKW-SPULE
L 409	07202-636.97	SPULE 7X7
L 411	07202-641.97	SPULE 7X7
L 501	07202-619.97	SPULE 7X7
L 502	19202-159.97	SPULE 7X7 100 FARBE 159
L 504	8140-535-210	SPULE 7X7 210 FARBE 566
L 601	8140-526-419	DR AX 0411-GA 1UH
L 802	8140-526-580	DR -GR 68MH
L 904	8140-525-913	DROSSEL 820 UH +-10% TAY
L 905	07202-371.97	SPULE 7X7

ÄNDERUNGEN VORBEHALTEN **ALTERNATIONS RESERVED**

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG / DESCRIPTION (D / GB)
LA 1	8316-113-109	LAMPE T1 5V 60MA 683-1
LA 2	8316-113-109	LAMPE T1 5V 60MA 683-1
Q 101	8382-437-106	QUARZ 6,275 MHZ
Q 102	8382-251-597	QUARZ 54,05 MHZ
Q 1001	8382-170-433	QUARZ 4,332 MHZ
Q 1101	8382-110-104	QUARZ 4,194304MHZ
Q 1102	8382-200-797	SCHWINGQUARZ 32,768 KHZ
R 500	19703-168.00	POTENTIOME.10KOHM AGC/MGC
R 533	8792-002-164	ESTR.S6 100 KOHM LIN
R 603	8792-002-146	ESTR.S6 4,7 KOHM LIN
R 605	8792-002-135	ESTR.S6 1 KOHM LIN
R 648	19703-170.00	POTENTIOMETER /HÖHEN
R 651	19703-169.00	POTENTIOMETER /BASS
R 656	19703-171.00	POTENTIOMETER /LAUTST.
R 748	19703-170.00	POTENTIOMETER /HÖHEN
R 751	19703-169.00	POTENTIOMETER /BASS
R 756	19703-171.00	POTENTIOMETER /LAUTST.

POS. NR. / POS. NO.	SACHNUMMER / PART NUMBER	BEZEICHNUNG / DESCRIPTION (D / GB)
R 812	8792-002-164	ESTR.S6 100 KOHM LIN
R 813	19703-213.00	POTENTIOMETER /HF PL.
R 1135	8792-002-159	ESTR.S6 47 KOHM LIN
SI 901⚠	8315-618-002	FS.1,25 A/T
T 611	8303-284-369	TRANS.BC 369
T 901	8303-287-369	TRANS.BC 369
T 903⚠	8302-201-371	TRANS.BC 369
T 907⚠	8303-284-369	TRANS.BC 369
T 913	8303-274-337	TRANS.BC 337-40
T 1101	8302-201-368	TRANS.BC 368
T 1106	8302-210-836	TRANS.BD 826-16B

SATELLIT 700



ÄNDERUNGEN VORBEHALTEN **ALTERNATIONS RESERVED**

GRUNDIG SERVICE MANUAL

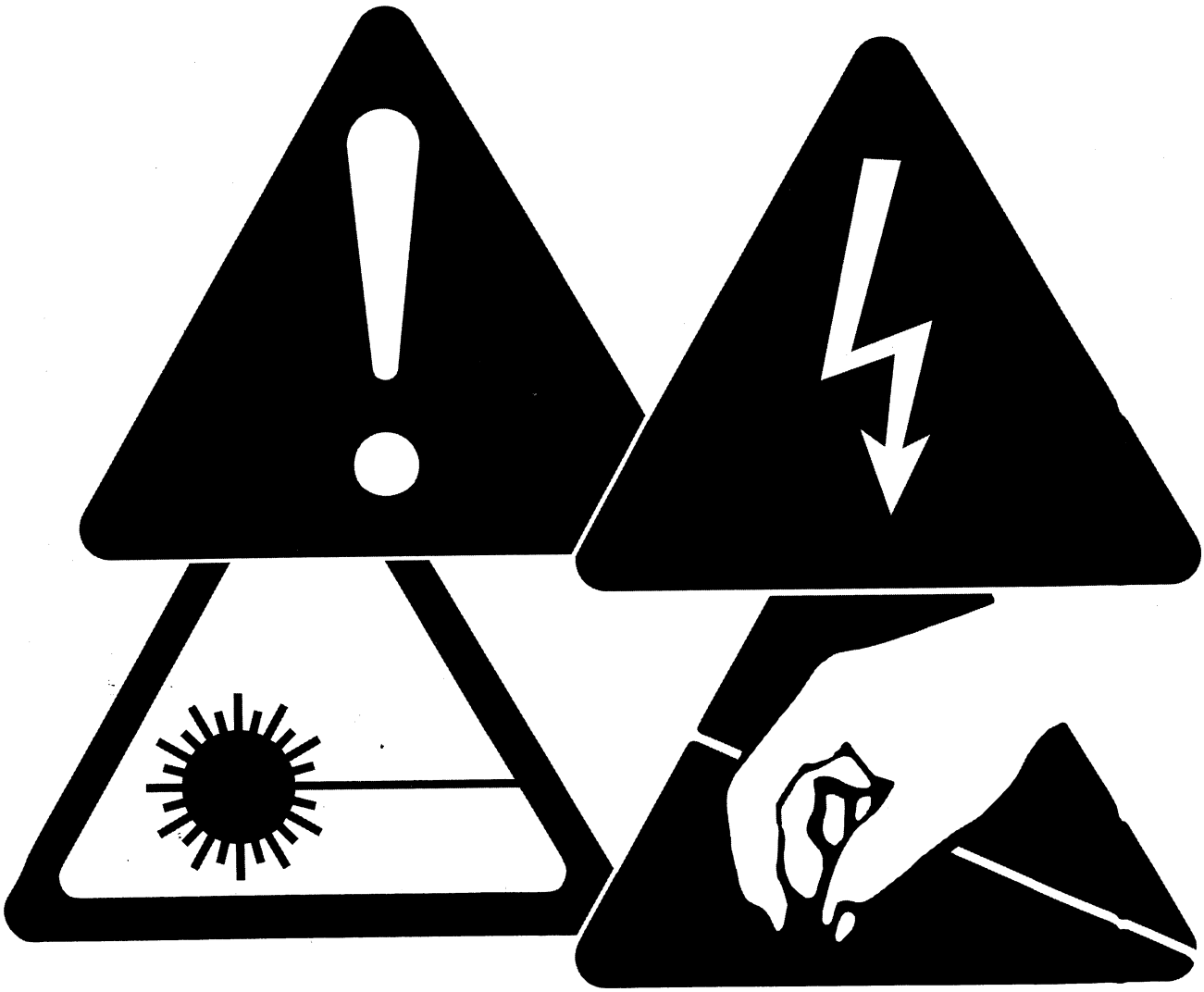
Sicherheit Safety

Service Manual

72010-800.00

Ⓓ Btx * 32700 #

ⒼⒷ **General Instructions for Safety, MOS, Chip and Laser Technology**



MOS **ESD**

Änderungen vorbehalten
Subject to alteration

Printed in Germany
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Service Manual Sach-Nr. 72010-800.00
Service Manual Part No. 72010-800.00

(D) **Dieses Service Manual enthält die Sicherheitsvorschriften, die bei Reparaturen zu beachten sind.**
Es gilt als Zusatz zu den in Zukunft erscheinenden Service Manuals, in denen keine Sicherheitshinweise mehr abgedruckt werden.
Verwahren Sie dieses Service Manual gut und berücksichtigen Sie die enthaltenen Vorschriften aus Gründen der Produkthaftung.
Bitte beachten Sie zusätzlich alle weitergehenden, landesspezifischen Vorschriften!

English

Inhaltsverzeichnis

Seite

Sicherheitsvorschriften 5
Elektrische Sicherheit im Servicefall (VDE 0701 / Teil 200) 5
LASER-Sicherheit 6
Sicherheitshinweise zu Lithium-Batterien 7
Behandlung von MOS-Bauteilen 7
Lötvorschriften für MOS-Schaltungen 7
Wichtige Hinweise zur Reparaturtechnik 7
CHIP-Technik 8

(GB) (USA) (CDN) (DK) (S) (SF)

This Service Manual covers the safety regulations which must be observed when carrying out repairs.
It is to be regarded as a supplement to all Service Manuals which will be issued in future without these safety regulations.
Preserve this Service Manual carefully and observe the instructions given in it for product liability.
Please observe also all additional national safety regulations!

Contents

Page

Safety Instructions 9
Safety Standard Compliance 9
Electrical Safety after Repairs 10
Important Advice and Safety Tests relevant to Service Repairs 11
Important Safety Instructions 11
Laser Safety 13
Safety Advice for Lithium Batteries 14
Handling of MOS Chip Components 14
MOS Soldering Instructions 14
CHIP Technology 15

Safety Instructions

The products identified in Service Manuals were manufactured to meet strict Quality and Safety Standards. It is imperative that the Safety Standards are observed when carrying out repairs to ensure that the product always conforms to IEC 65 or VDE Regulations and the harmonised National Safety Regulations, eg. Low Voltage Directive (73/23/EEC), the Low Voltage Electrical Equipment (Safety) Regulations, 1989 (UK) and the Electricity at Work Regulations, 1989 (UK) before it is returned to the owner.

This symbol: ⚠

is used to identify components which conform to IEC or VDE Guidelines! When these require replacement, for continued compliance and protection, use only the original components specified in the Service Manual (List of Spare Parts). For continued protection against the risk of fire, the type and rating of fuses (nominal value, characteristic and rupturing rating) used as replacements must be as specified by the Standards!

After any repair, it is imperative that the Leakage Current and/or Insulation Resistance is checked as described in this Safety Manual. If the result of the check indicates that the product does not conform, the user / owner must be notified in writing. If the user / owner requests that the product is to be returned in a defective condition, the written warning must draw notice to the risks.
In all cases:

- The mains plug and the fuse fitted (UK) must be checked and any defect found corrected.
- The mains lead, and any other connecting leads, must be checked for damage and defects rectified. Check the insulation!
- The functional reliability of all tension relief and bending protection bushes provided in the product must be checked and defects rectified.
- For continued safety compliance, safety determining parts in the product must not be damaged or evidently unsuitable. This is especially valid for insulators and insulating parts.
- Use specified parts only. For components and assemblies marked with the Safety Symbol ⚠ the original specified spare parts only are strictly to be used.
- Use, if applicable, only information published in Grundig Technical Bulletins or in the Grundig Infotip System.
- Thermally loaded solder pads and those passing large currents, known by experience to cause a risk, must be thoroughly cleaned and re-soldered.
- Ensure that the ventilation openings are not obstructed or contaminated with dust.
- Ensure the proper disposal of exhausted batteries and accumulators (hazardous waste - environmental protection!)
- For all receivers, ensure that the aerial system conforms to BSI CP 6330:1983 (UK).
- Maintain records of all checks, remedial action and disposals.

Safety Standard Compliance

After repairing a product which originally conformed to the Safety Class II (double insulated), the Insulation Resistance and / or Leakage Current with the product switched on must be checked to VDE 0701 or to the National Safety Regulations quoted above.

The products covered by these Instructions conform to the Safety Class II, as identified by the symbol:

Warning: After repairs are carried out to parts within this product, the Safety Instructions given in VDE 0701 (Repair Instructions) and / or VDE 0860 / IEC 65 / EN 60065 (Product Specification) must be observed.

⚠ Components conforming to IEC or VDE Approval Specification! For replacement purposes, use parts with the same specification only!

MOS Observe the requirements when handling **MOS** Components!

English

Electrical Safety after repairs

According to the Product Liability Laws, the Manufacturer is responsible for ensuring that the product presents no danger to the user when used correctly. This risk is especially important with products which are operated from the mains voltage supply. To ensure that safety parameters are maintained especially after repairs have been carried out, it is imperative that the product is tested as specified in a recognised Test Procedure.

1. Products conforming to Safety Class I (earthed, Symbol ⏚)

Earth lead Test.
Check that the earth lead performs its function by using a Continuity Tester. For this integrity of the connection (conduction of current) from the protection lead contact in the plug to all metal parts that can be touched, with the product switched on and with it switched off, must be proved. A maximum of 0.3 Ω is permitted for the resistance of a connecting lead with a length of up to 5 metres.

2. Products conforming to Safety Class II (insulated, Symbol ⧈)

Insulating resistance measurements as specified in VDE 0701/Part 200.
The insulation resistance between all electrical functioning stages and metallic cabinet parts that can be touched must be proved.

Measurement of the Insulation Resistance to VDE 0701

Connect an Insulation Test Meter (U_{test} = 500V DC) to both mains poles simultaneously and between the cabinet and all other functional parts (aerial and connecting sockets, buttons, decorative trims, screws, etc.) made from metal or metal alloy. The product is fault free if:

R_{isol} > 2MΩ at U_{test} = 500V DC

Measuring time: > 1s

Note: The Insulation Resistance in some Safety Class II products can be < 2MΩ, depending upon construction and the value of discharge resistors. In these cases, the Leakage Current is significant and must be checked.

Measurement of the Leakage Current to VDE 0701

Connect a Leakage Current Meter (U_{test} = 220V AC*) to both mains poles simultaneously and between the cabinet and all other functional parts (aerial and connecting sockets, buttons, decorative trims, screws, etc.) made from metal or metal alloy. The product is fault free if:

I_{leak} < 1mA at U_{test} = 220V AC*

Measuring time: > 1s

* **As, at the time of preparing these Safety Instructions, there is no British Standard Institute Standard that is equivalent to VDE 0701, use a test voltage of 240V AC.**

- For testing to VDE 0701 / IEC 65 / BS 415 etc. we recommend that the measurements are carried out using the PAC 500, PAT 1000, PAT 2000, Metratester 3/4 or suitable equipment. These can be obtained from:

  e.g. Seaward Electronic Ltd
  Bracken Hill, South West Ind Est
  Peterlee
  Co Durham
  SR8 2JJ
  Telephone: 091-5863511

  e.g. ABB Metrawatt GmbH
  Thomas-Mann-Str. 16-20
  D-90471 Nürnberg

  Note: Models quoted may be superceded with new models with the passage of time.

- The PAC provides an initial indication of a "pass" or "fail" and is also suitable for mobile (field service) use, and the PAT units are designed for in-house use and for the maintenance of records and other professional uses and are compatible with most PC systems.

- If the safety of the product is not proven because:
  - a repair and full restoration is not physically or economically possible
  - or if the user / owner requests that repairs are not to be carried out,
  the user / owner must be given a written warning of the risk!

- Observe the conditions given in the "Safety Instructions" section.

Important Advice and Safety Tests relevant to Service Repairs

- Service repairs must be carried out only by qualified personnel.
- Observe the VDE and National Safety Regulations as applicable.
- Operate line / mains powered units via an isolating transformer.
- Connect external aerials via an aerial isolating element.
- After repair, activate all protective circuits put out of operation.
- Before complete re-assembly of the unit restore the wiring to the original condition.
- Wear the protective clothing as required for repairs on picture tubes.
- Discharge the picture tube before dismantling it.
- When handling picture tubes avoid mechanical shocks to the tube (risk of implosion).

English

USA CDN

Important Safety Instructions

Attention: Please observe the applicable safety requirements according to VDE 0701 (concerning repairs) and VDE 0860 / IEC 65 / EN 60065 (concerning type of product)!

Components to IEC or VDE guidelines! Only use components with the same specifications for replacement!

MOS Observe **MOS** components handling instructions when servicing!

Attention: This appliance can only be operated from AC mains of 120 V/60 Hz. Also observe the information given on the rear of the set.

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSES!

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage", within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
- Retain Instructions - The safety and operating instructions should be retained for future reference.
- Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
- Follow Instructions - All operating and user instructions should be followed.
- Water and Moisture - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
- Wall or Ceiling Mounting - The appliance should be mounted to wall or ceiling only as recommended by the manufacturer.
- Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may obstruct the flow of air through the ventilation openings.

English

- Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- Power Sources - The appliance should be connected to a power supply only of the type given above or as marked on the appliance.
- Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
- x1 Power Lines - An outdoor antenna should be located away from power lines.
- x2 Outdoor Antenna Grounding - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static voltages. Section 810 of the National Electrical Code, ANSI / NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to the antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
- Nonuse Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- Damage Requiring Service - The appliance should be serviced by qualified service personnel when: The power-supply cord or the plug has been damaged; or objects have fallen, or liquid has been spilled into the appliance; or the appliance has been exposed to rain; or the appliance does not appear to operate normally or exhibits a marked change in performance; or the appliance has been dropped, or the enclosure damaged; or the batteries have been damaged.
- Servicing - the user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Items x1 and x2 apply only to receivers, tuners and TV sets.

LASER Safety

The MOS safety requirements must be met because many components, particularly the laser diode, are very sensitive to static electricity.
The pick-up unit incorporates many precision components and should therefore be protected against high temperatures, high humidity, strong magnetic fields, mechanical shocks and dust.

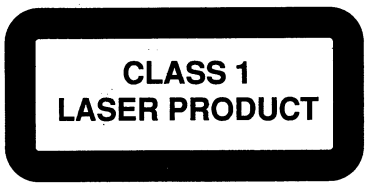
- The CD Player belongs to the category of products with a low-power LASER.
- According to DIN VDE 0837 or IEC 825 it is a Class 1 LASER meaning that the output power limits are determined by the design. The LASER DIODE must not be operated outside the pick-up since the output power increases by many times (Class 3B) and will cause injuries to the eye. In this case the use of LASER protective goggles is strictly recommended.
- Due to the lens system of the LASER pick-up the focal point of the LASER light is about 1.5 mm above the focus lens. The focal point is located low enough to allow the LASER to be looked at with unprotected eyes.
- Avoid looking at the LASER using external optical means such as, for example, a magnifying glass because the focal point will be projected onto the retina and may cause injuries to the eye.
- The LASER light appears on the focus lens of the pick-up as a dark-red spot when looking at the optical system at an angle, preferably at low ambient brightness.
- By placing a sheet of transparent paper onto the focus lens the LASER spot is projected onto the back of the sheet and is well perceivable.

In general, built-in safety locks ensure that the LASER does not operate with an open disc compartment cover. In consideration of the above instructions, the special safety locks can be made ineffective and the LASER will be visible as a small red spot.

English

Safety Standard Classes for the LASER (according to DIN IEC 825 / VDE 0837)

Class 1
Not dangerous for the human eye. Maximum output power eg: at 700 nm - 69 µW.



LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

Class 3 B
Dangerous for the human eye and, in special cases, for the skin. Maximum radiation power up to 0.5 W.

FALLS ERFORDERLICH
IF APPLICABLE
HVIS NØDVENDIG
HVIS DET KREVES

VORSICHT - UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT IST. NICHT DEM STRAHL AUSSETZEN.
CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL - UNSYNLIG LASERSTRALING NAR DEKSEL APENS UNNGA EKSPONERING FOR STRALEN.
ADVARSEL - UNSYNLIG LASER STRÅLING VED ÅBNING. UNDGÅ UDSETTELSE FOR STRÅLING.
VARNING - OSYNLIG LASER STRÅLNING NÄR DENNA DEL ÄR ÖPPAND OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
VARO - AVETTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALITTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

The output of laser light from a CD pick-up unit corresponds to Class 1. If the laser diode is operated outside pick-up unit, this corresponds to operation under Class 3 B.

VARNING!
OM APPARATEN ANVÄNDS PÅ SÄTT ÄN I
DENNA BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN
UTSÄTTAS FOR OSYNLIG LASERSTRÅLNING,
SOM ÖVERSKRIDER GRÄNSEN FOR LASERKLASS 1.

VAROITUS!
LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ
KÄYTTOOHJEESA MAINITULLA TAVALLA SAATTAA
ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN I
YLITTÄVÄLLE NÄKYMÄTTOMÄLLE LASERSATEILYLLE.

Safety Advice for Lithium Batteries

Warning! Lithium Batteries:
Incorrectly used lithium batteries (excessive heat, reversed connection of terminals, short circuit) represent a danger of explosion!
Lithium batteries must be replaced **only** by the **original spare part** (see Spare Parts List).
Please observe the appropriate disposal regulations for exhausted lithium batteries.

English

(DK)

Adversel!
Lithiumbatteri. Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

(S)

Varning
Eksplosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

(SF)

Varoitus
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

Handling of MOS Chip Components

Circuits containing MOS devices require special and careful handling to protect them from damage by static charges. Static charges can build up on all highly insulated plastics, can be transferred to persons wearing clothes and shoes made from synthetic materials and from them to the MOS devices.
Protection circuits in the inputs and outputs of MOS devices provide only a limited degree of protection and this is due to their reaction time.
Please observe the following instructions to protect these components from damage by static charges:

1. Retain MOS components in their conductive packages until they are required for use. MOS components must never be stored or transported in Styroper materials or in plastic magazines.

2. Personnel handling MOS components must first discharge any electrostatic charge on their body or clothing by touching a grounded object.

3. Handle the MOS device by the body and do not touch the terminals / pins.

4. Use earthed instruments only for testing and processing purposes.

5. Removal of, or making contact with, MOS ICs fitted into sockets must only be carried out with the operating voltage disconnected.

6. Circuits containing p-channel MOS components must not be connected to positive voltages (with reference to the substrate connection VSS).

MOS Soldering Instructions

- Use mains-isolated low-voltage soldering irons only.
- Maximum soldering period is 5 sec with a soldering iron temperature of 300°C to 400°C.

CHIP Technology

Soldering and unsoldering of CHIP components

- Use only low-voltage soldering irons with temperature control.
- Permissible soldering temperatures are approx. 240 °C up to max. 300 °C.
- Keep the soldering period as short as possible.
- Keep the CHIP components in their original packages until they are used to avoid oxidation of the end contacts.
- Do not touch CHIP components with bare hands.

English

Unsoldering of CHIP components

1. step: Clean the CHIP soldering point with a solder wick (Fig. 1).
2. step: Warm up the ends of the CHIP or the whole CHIP component and remove the CHIP from the adhesive by turning it without application of force so that the tracks beneath the CHIP do not break (Fig. 2).

Attention! Never use unsoldered CHIPS again!
The conductive layer may be broken.

Soldering of CHIP components

3. step: Remove any remaining residues from the soldering point. Then apply a bead of solder (Fig. 3).
4. step: Place the CHIP onto the soldering point, then center and fix it (Fig. 4).
5. step: Solder the free end of the CHIP and resolder the first soldering point after it has cooled (Fig. 5).

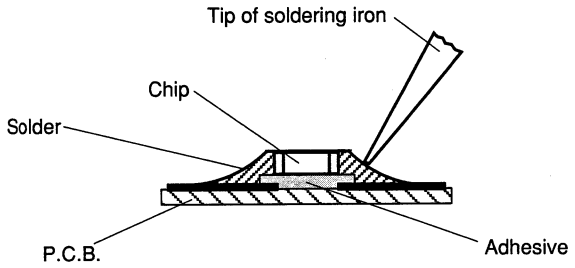


Fig. 1

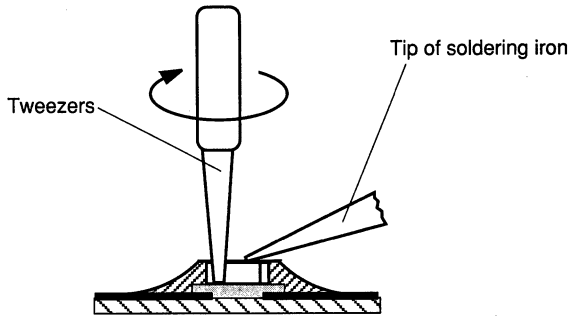


Fig. 2

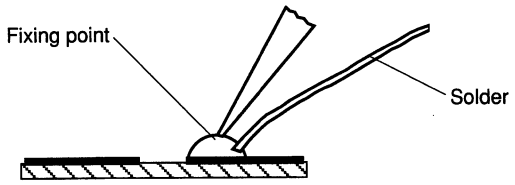


Fig. 3

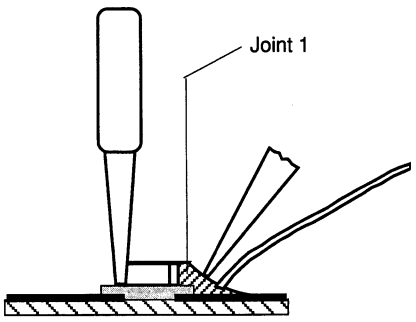


Fig. 4

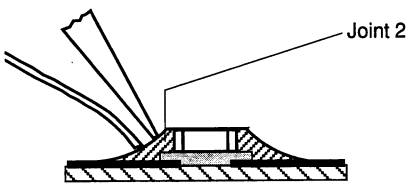


Fig. 5

More detailed information on the SMD soldering technology is given in the service brochure "SMD Soldering Technology" – Ⓓ – obtainable under the part no. 72008-499.98.